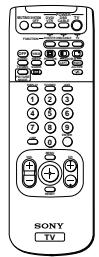
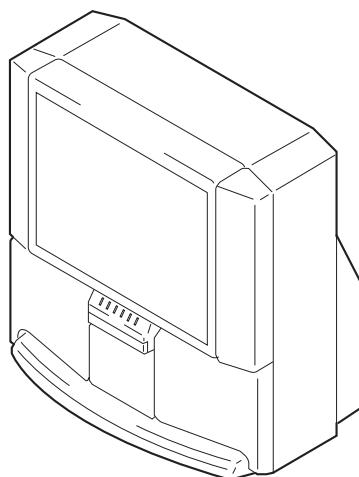


SERVICE MANUAL RA-4 CHASSIS

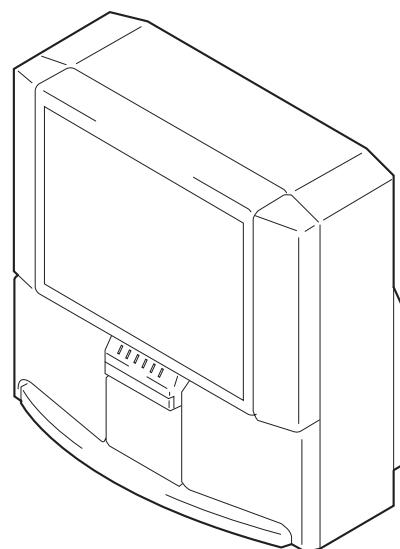
MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-53XBR200	RM-Y902	US	SCC-N90A-A
KP-53XBR200	RM-Y902	Canadian	SCC-N90A-A
KP-61XBR200	RM-Y902	US	SCC-N90B-A
KP-61XBR200	RM-Y902	Canadian	SCC-N90B-A



RM-Y902



KP-53XBR200



KP-61XBR200



* Please file according to model size.

SPECIFICATIONS

Projection system	3 picture tubes, 3 lenses, horizontal in-line system	Speaker	Front (Tweeter): 50 mm (2") x 2 Front (Woofer):
Picture tube	7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system		130 mm (5") x 2 (KP-53XBR200) 160 mm (6 3/8") x 2 (KP-61XBR200)
Projection lenses	High performance, large diameter hybrid lens F1.1	Speaker output	Center: 100 mm (4") x 2 Rear: 70 mm (2 3/4") x 4
Television system	American TV standard		Front: 20 W x 2 Center: 20 W x 1
Channel coverage	VHF: 2–13/UHF: 14 –69/ CATV: 1 – 125		Rear: 10 W x 2
Antenna	75 ohm external terminal for VHF/UHF	Power requirement	120 V AC, 60 Hz
Screen size (measured diagonally)	53 inches (KP-53XBR200) 61 inches (KP-61XBR200)	Power consumption	In use (Max.): 300 W
Inputs/outputs	VIDEO 1/3/4 IN VIDEO 2 INPUT S VIDEO IN (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 500 mVrms (100% modulation), Impedance: 47 kilohms VIDEO 5 IN S VIDEO IN (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 500 mVrms (100% modulation), Impedance: 47 kilohms Y: 1 Vp-p, 75 ohms, sync negative CB: 0.7 Vp-p, 75 ohms CR: 0.7 Vp-p, 75 ohms SELECT OUT VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 470 mVrms (100% modulation), Impedance: 47 kilohms AUDIO (VAR) OUT (phono jacks): 950 mVrms (100% modulation) AUDIO (FIX) OUT (phono jacks): 500 mVrms (100% modulation) S-LINK minijacks CONTROL S IN/OUT minijacks	Dimensions (W/H/D)	In standby: 1 W 1,322 x 1,439 x 621 mm (52 1/8 x 56 3/4 x 24 1/2 inches) (KP-53XBR200) 1,573 x 1,533 x 702 mm (62 x 60 3/8 x 27 3/4 inches) (KP-61XBR200) Mass 127 kg (281 lbs) (KP-53XBR200) 168 kg (371 lbs) (KP-61XBR200)
		Supplied accessories	Remote control RM-Y902 (1) Batteries (2) size AA (R6) Rear speakers (2) Speaker cords (2)
		Optional accessories	Connecting cables RK-74A, RKG-69HG, VMC-10HG, VMC-720M, VMC-810S/820S, YC- 15V/30V U/V mixer EAC-66
		Side rack	SU-53XBR200 (for KP-53XBR200) SU-61XBR200 (for KP-61XBR200)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line; the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

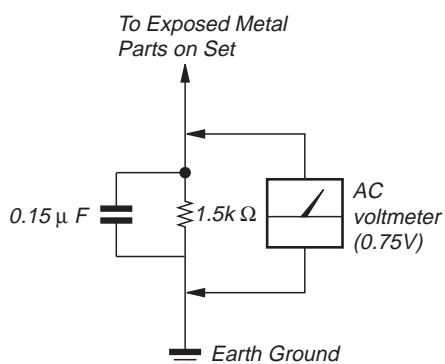


Fig. A. Using an AC voltmeter to check AC leakage.

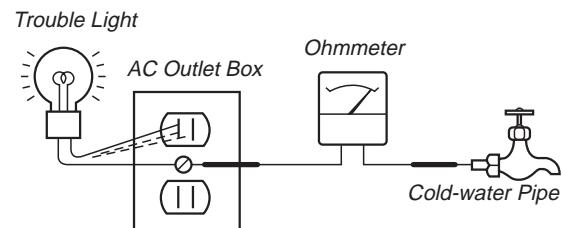


Fig. B. Checking for earth ground.

SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the Standby/Sleep lamp automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the Standby/Sleep lamp.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

2. Diagnosis Items and Prediction of Malfunction Location

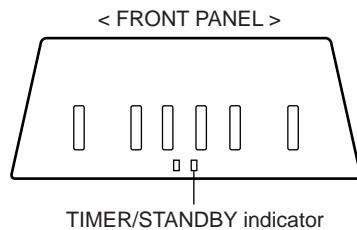
- When a malfunction occurs the Standby/Sleep lamp only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display “ 0 ” means that no malfunctions occurred.

Diagnosis item	Standby/ sleep lamp, Number of blinks	Self-diagnosis screen dispdg, Diagnosis item Results
• Power not ON	Not lit	
+B OCP detection	LED blinks 2 times	2 : +B OCP XX
+B OVP detection	LED blinks 3 times	3 : +B OVP XX
V horizontal detection	LED blinks 4 times	4 : V STOP XX
AKB detection	LED blinks 5 times	5 : AKB XX
H vertical detection	LED blinks 6 times	6 : H STOP XX
HV abnormality detection	LED blinks 7 times	7 : HV XX
Audio abnormality detection	LED blinks 8 times	8 : AUDIO XX

* : XX the range of values for number of operations is 00-99. For 99 or higher there is no count up and the number remains at 99.

3. Blinking count display of Standby/Sleep lamp

* One blink is not used for self-diagnosis.



•EXAMPLE

<Diagnosis Items>

- +B overcurrent
- +B overvoltage
- Vertical deflection stop

<Number of Blinks>

2 times
3 times
4 times

<Number of Blinks>

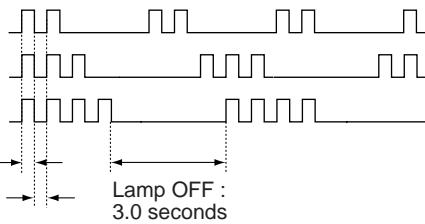
2 times

3 times

4 times

Lamp ON : 0.3 seconds

Lamp OFF : 3.0 seconds



Release of Standby/Sleep lamp blinking.

- The Standby/Sleep lamp blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

4. Self-diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

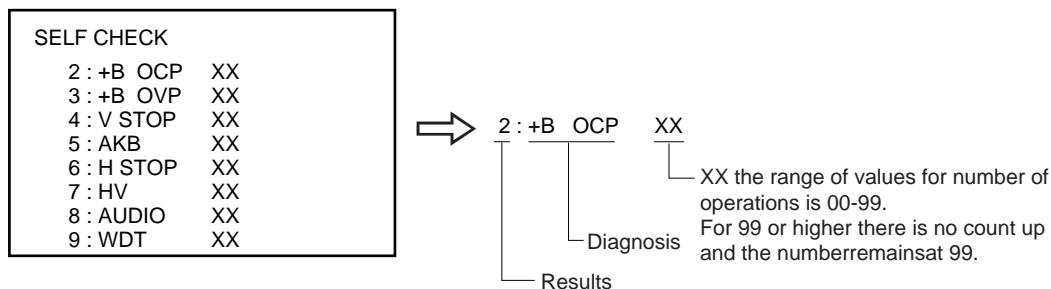
<Screen Display Method>

- Quickly press the remote command button in the following order from the standby state.

Display \Rightarrow Channel $\boxed{5}$ \Rightarrow Volume $\boxed{-}$ \Rightarrow Power ON

↑
Be aware that this differs from the method of
entering the service mode (volume $\boxed{+}$).

Self-diagnosis screen display



5. Self-Diagnosis Screen Display

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to "0".
- If the results display is not returned to "0" it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

- When returning the results display to "0" (clear), press the remote command buttons in the following order when the diagnosis screen is displayed.
- Be aware that, when carrying this out in the speed mode, all the other electrical adjustment data will be rewritten.

Channel $\boxed{8}$ \Rightarrow ENTER

<Method of Ending Self Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

TABLE OF CONTENTS

Section	Title	Page	Section	Title	Page
SELF DIAGNOSIS FUNCTION 4					
1. GENERAL					
Remote Control	7	6. DIAGRAMS	6-1. Block diagram (1)	63	
Using This Manual	7		Block diagram (2)	66	
Installing and Connecting the Projection TV	7		Block diagram (3)	69	
Installing and Connecting the Projection TV (continued)	8		Block diagram (4)	73	
Basic Set Up	17		Block diagram (5)	77	
Using Your New Projection TV	18		Block diagram (6)	80	
Using Your New Projection TV (continued)	18		Block diagram (7)	83	
Adjusting Your SET UP (menus)	23		Block diagram (8)	86	
Adjusting Your SET UP (menus) (continued)	24	6-2. Frame Schematic Diagram	89		
Operating Video Equipment	32	6-3. Circuit Boards Location	93		
Operating Video Equipment (continued)	33	6-4. Printed Wiring Boards and Schematic Diagrams	93		
Operating a Cable Box or DBS Receiver	33	• A (1/4) Board	94		
Troubleshooting	34	• A (2/4) Board	99		
Troubleshooting (continued)	34	• A (4/4) Board	104		
2. DISASSEMBLY					
2-1. Screen Frame Assy and HC Board Removal	36	• A (3/4) Board	109		
2-2. Rear Board Removal	36	• BD Board	113		
2-3. Main Bracket Removal	36	• BM Board	119		
2-4. Service Position	36	• G Board	125		
2-5. G Board Removal	37	• BR (1/2) Board	133		
2-6. Terminal Board and U Board Removal	37	• BR (2/2) Board	137		
2-7. K Board Removal	37	• D (1/2) Board	141		
2-8. BM, BR and BD Boards Removal	37	• D (2/2) Board	145		
2-9. Reflection Mirror Removal	38	• K Board	152		
2-10. HA and HB Boards Removal	38	• CR, CG, CB Boards	159		
2-11. Picture Tube Removal	39	• ZR, ZG Boards	163		
2-12. High-Voltage Cable Installation and Removal	39	• ZB, U Boards	166		
3. SET-UP ADJUSTMENTS 40					
4. SAFETY RELATED ADJUSTMENTS 57					
5. CIRCUIT ADJUSTMENTS 58					
(CAUTION)					
SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.					
WARNING!!					
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.					
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.					
SAFETY-RELATED COMPONENT WARNING!!					
COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.					
7. EXPLODED VIEWS					
7-1. Cover (KP-53XBR200)	174				
7-2. Cover (KP-61XBR200)	175				
7-3. Chassis	176				
7-4. Picture Tube	177				
8. ELECTRICAL PARTS LIST 178					

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CE-LUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UNTRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE.

LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ!!

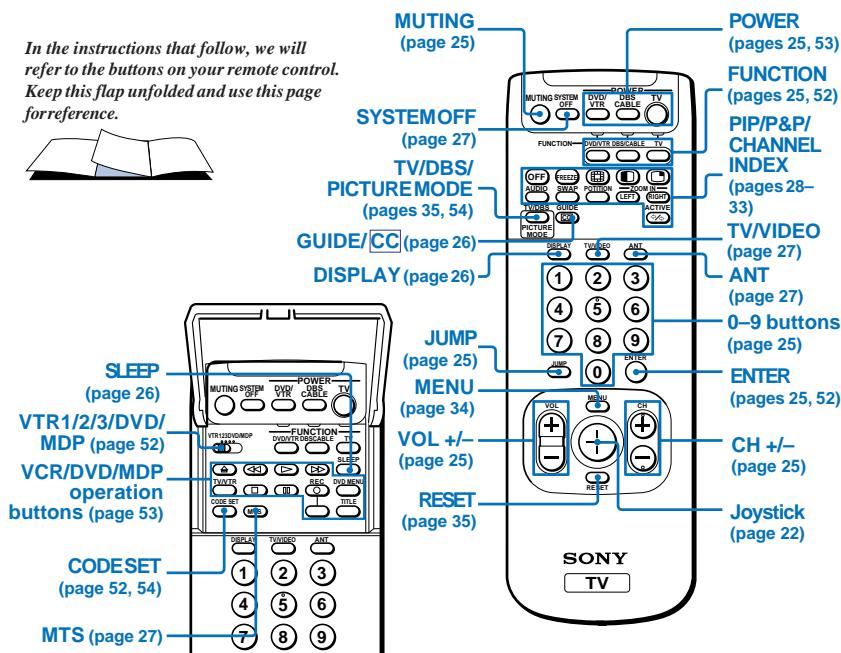
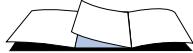
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE \triangle SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDICUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual. (Part no : 3-864-093-11)

■■■ Remote Control

In the instructions that follow, we will refer to the buttons on your remote control. Keep this flap unfolded and use this page for reference.



Getting to know the buttons on the remote control

Names of the buttons on the remote control are presented in different colors to represent the available functions.

Button color

Transparent Press to select the component you want to control; e.g. VTR (VCR)/MDP/DVD Player, DBS (Direct Broadcast Satellite)/CABLE, or projection TV.

Green Buttons relevant to power operations, like turning the projection TV, DBS/CABLE, or VTR (VCR)/MDP/DVD Player on or off.

Label color

Green SYSTEM OFF button
White TV/VTR (VCR)/MDP/DVD Player/DBS (Direct Broadcast Satellite)/CABLE/S-Link operation buttons.

Yellow PIP, P&P, and CHANNEL INDEX operation buttons.

Blue DBS operation buttons.

Pink DVD Player operation buttons.

For a detailed explanation of most buttons, see "Watching the TV" on page 25.

■■■ Using This Manual

This manual is divided into four major sections. We recommend that you carefully review the contents of each section in the order provided to ensure that you fully understand the operation of your new projection TV.

1 Installing and Connecting the Projection TV.

This section will guide you through your initial set up. It will show you how to connect your new components and how to connect to your antenna or cable.

2 Basic Set Up.

This section will teach you the basic skills needed to operate your new projection TV. It will show you how to operate special functions of the remote control.

3 Using Your New Projection TV.

This section will show you how to begin using your new projection TV. It will show you how to use the AUTO SET UP feature, and how to use your remote control's features.

4 Adjusting Your Set Up (menus).

This section will teach you how to access on-screen menus and adjust your projection TV's settings.

Instructions in this manual are written for the remote control. Similar controls may be found on the projection TV console.

■■■ Installing and Connecting the Projection TV

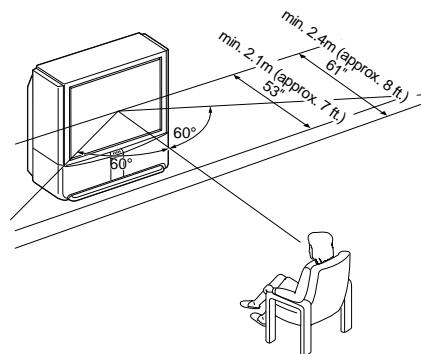
Carrying your projection TV

Carrying the projection TV requires three or more people.

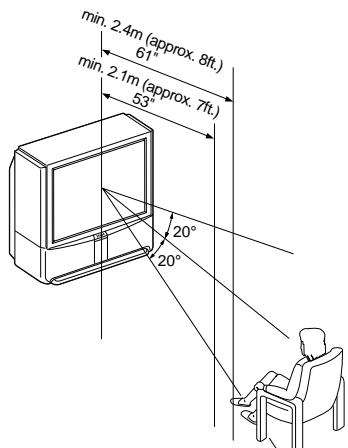
The projection TV has been equipped with casters for easy movement. Please move your projection TV using the casters.

Installing the Projection TV

Recommended viewing area (Horizontal)



Recommended viewing area (Vertical)

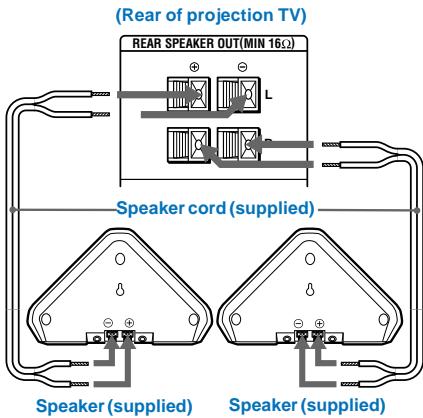


Mounting the Supplied Rear Speakers

For enhanced surround effect, connect the supplied rear speakers to your projection TV.

Connecting the rear speakers

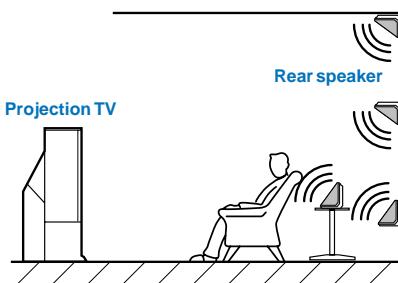
Using the supplied speaker cord, connect REAR SPEAKER OUT L on your projection TV to the speaker terminal on one rear speaker, and connect REAR SPEAKER OUT R to the terminal on the other one.



Installation

For optimum surround effect, mount the rear speakers in the following places (as shown in the illustration):

- on a wall, a little higher or lower than the listener's ears.
- on a table, a little lower than the listener's ears.
- on a corner of wall and ceiling.



(Rear of projection TV)

Left rear speaker Right rear speaker

Note:

- Match the colors of the speaker cords and the terminals. If the colors are reversed, sound will be distorted.

3

Installing and Connecting the Projection TV (continued)

Connector Types

You may find it necessary to use some of the following connector types during set up.

Coaxial cable

Standard TV cable and antenna connector

Plug Type

Press into connection

Screw-on Type

Screw into connection

S Video cable

High quality video connector for enhanced picture quality

Align guides and press into connection

Audio/Video cable

Press into connection

Video - Yellow

Audio (Left) - White

Audio (Right) - Red

(Some DVD Players are equipped with the following three video connectors.)

Y - Green

C_B (C_b, B-Y or P_B) - Blue

C_R (C_r, R-Y or P_R) - Red

S-Link/CONTROL S cable

Sony connector for S-Link and CONTROL S connections. These features are exclusive to Sony products and allow greater control of all Sony equipment.

Press into connection

Note:

- For S-Link and CONTROL S connections, you can use the combined S-Link/CONTROL S cable provided with some Sony video equipment, or you can purchase a separate S-Link/CONTROL S cable (RK-G69HG).

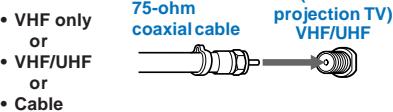
Making Connections

For the best picture quality, a cable TV system or outdoor antenna is recommended.

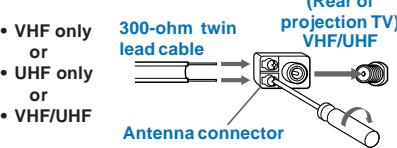
Connecting directly to cable or an antenna

The connection you choose will depend on the cable found in your home. Newer homes will be equipped with standard coaxial cable (see **A**); older homes will probably have 300-ohm twin lead cable (see **B**); still other homes may contain both (see **C**).

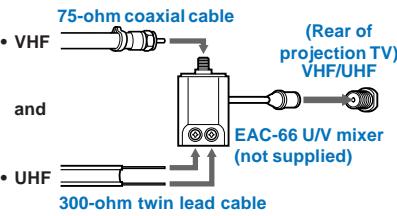
A



B

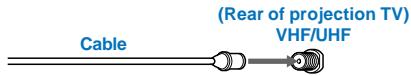


C



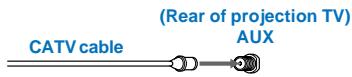
Cable or antenna

Most simple connection. Connection is made directly from the cable or antenna to the projection TV.



Cable and antenna

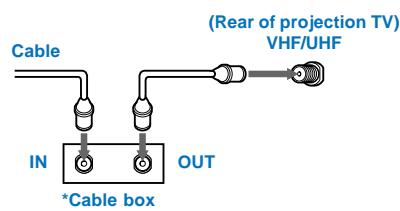
You may find it convenient to use the following set up if your cable provider does not feature local channels that you are able to receive using an antenna.



Select Cable or ANT mode by pressing ANT on the remote control.

Connecting a cable box

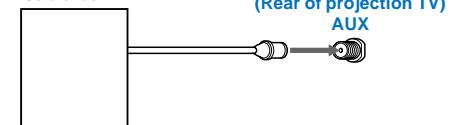
Some pay cable TV systems use scrambled or encoded signals that require a cable box* to view all channels.



Note:

- If you will be controlling all channel selection through your cable box, you should consider using the CHANNEL FIX feature. (see "CHANNEL FIX" on page 45)

*Cable box



For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing ANT on your remote control.

Notes:

- You may be able to program your Sony remote control to operate your cable box. (see "Operating a Cable Box or DBS Receiver" on page 54)
- During PIP, P&P, CHANNEL INDEX or FAVORITE CHANNEL viewing, the AUX input can only be viewed in the main picture.
- If you are connecting a cable box through the AUX input and would like to switch between the AUX and normal (CATV) input you should consider using CHANNEL FIX. (see "CHANNEL FIX" on page 45)

5

■■■ Installing and Connecting the Projection TV (continued)

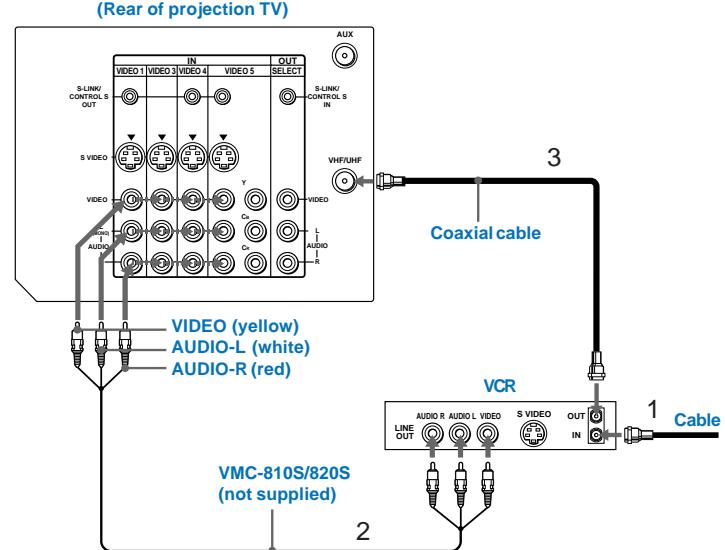
Disconnect all power sources before making any connections.

Connecting an antenna/cable TV system with a VCR

- Attach the coaxial connector from your cable or antenna to IN on your VCR.
- Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your projection TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).
- Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your projection TV.

Note:

- If you are connecting a monaural VCR, connect only the single audio output to the left (MONO) input on your projection TV.



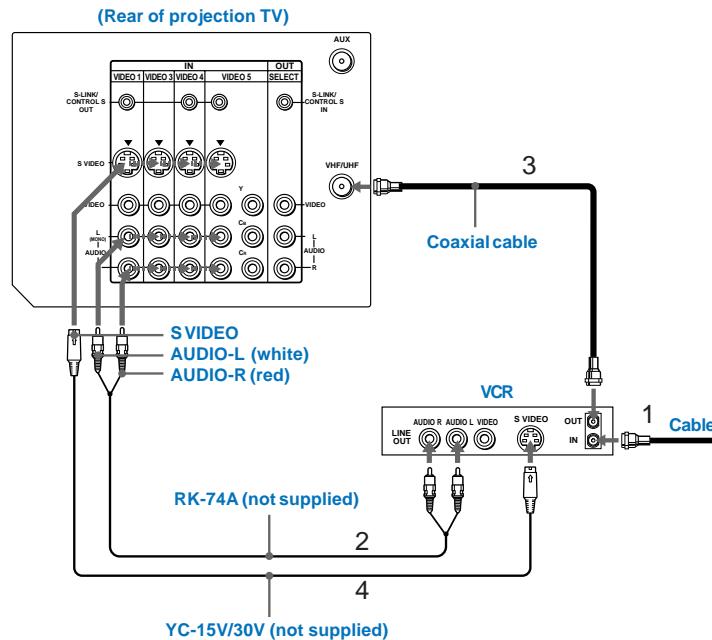
Connecting to an S Video equipped VCR

- 1 Attach the coaxial connector from your cable or antenna to IN on your VCR.
- 2 Using AUDIO connectors, connect AUDIO OUT on your VCR to AUDIO IN on your projection TV (White-AUDIO Left, Red-AUDIO Right).
- 3 Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your projection TV.
- 4 Using an S VIDEO connector, connect S VIDEO on your VCR to S VIDEO on your projection TV.

Note:

- If you are connecting a monaural VCR, connect only the single audio output to the left (MONO) input on your projection TV.

Disconnect all power sources before making any connections.



7

Installing and Connecting the Projection TV (continued)

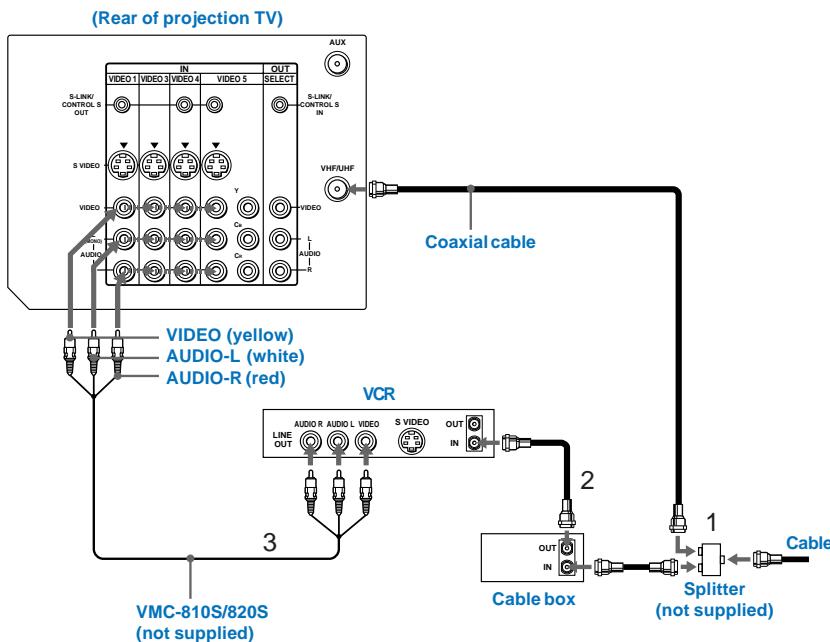
Connecting a VCR and projection TV with a cable box

- 1 Connect the single (input) jack of the Splitter to your incoming cable connection, and connect the other two (output) jacks (using coaxial cable) to IN on your cable box and VHF/UHF on your projection TV.
- 2 Using a coaxial connector, connect OUT on your cable box to IN on your VCR.
- 3 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your projection TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

Note:

- To view scrambled channels through your cable box, select the video input which your cable box is connected to by pressing TV/VIDEO.

Disconnect all power sources before making any connections.



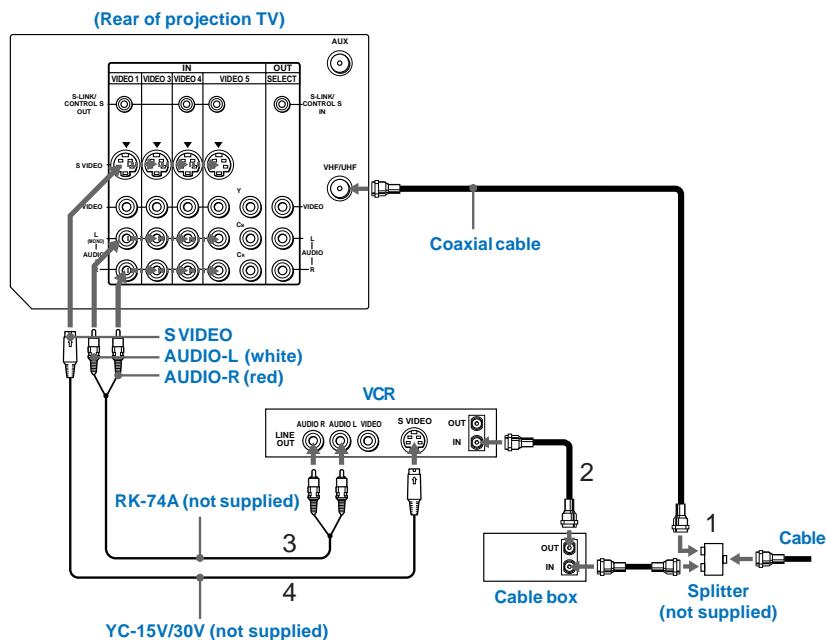
Connecting to an S Video equipped VCR with a cable box

- 1-2 Perform as described on page 8.
- 3 Using AUDIO connectors, connect AUDIO OUT on your VCR to AUDIO IN on your projection TV (White-AUDIO Left, Red-AUDIO Right).
- 4 Using an S VIDEO connector, connect S VIDEO on your VCR to S VIDEO on your projection TV.

Note:

- To view scrambled channels through your cable box, select the video input which your cable box is connected to by pressing TV/VIDEO.

Disconnect all power sources before making any connections.



9

■ ■ ■ Installing and Connecting the Projection TV (continued)

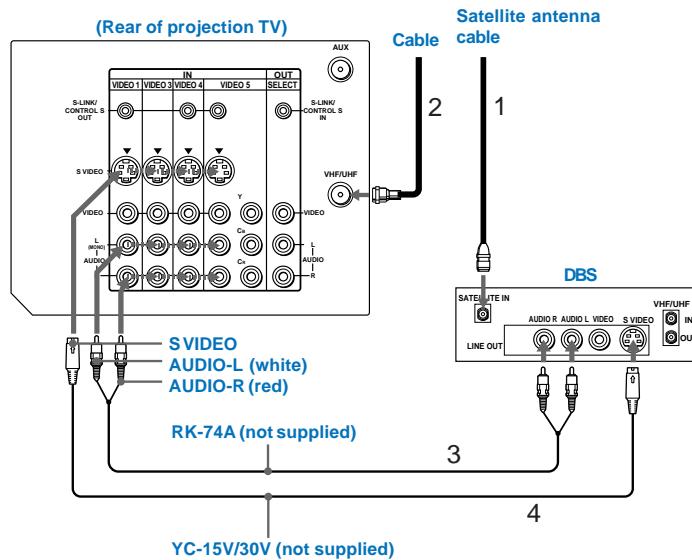
Disconnect all power sources before making any connections.

Connecting a DBS (Direct Broadcast Satellite) receiver

- 1 Connect the cable from your satellite antenna to your DBS receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF on your projection TV.
- 3 Using AUDIO connectors, connect AUDIO OUT on your DBS receiver to AUDIO IN on your projection TV (White-AUDIO Left, Red-AUDIO Right).
- 4 Using an S VIDEO connector, connect S VIDEO on your DBS receiver to S VIDEO on your projection TV.

Note:

- To view input from the DBS, select the video input which your DBS receiver is connected to by pressing TV/VIDEO on the remote control.



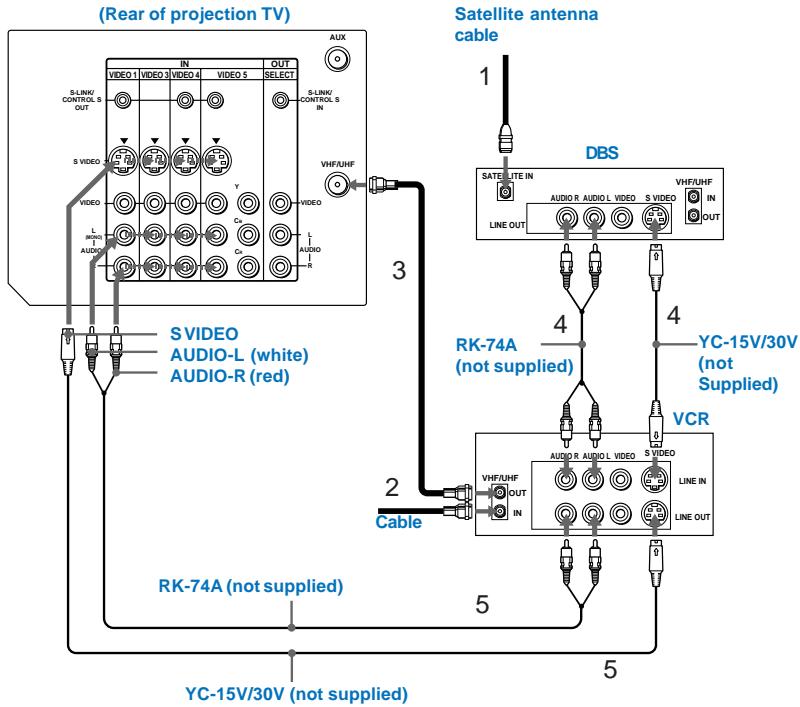
Connecting a DBS (Direct Broadcast Satellite) receiver and a VCR

- 1 Connect the cable from your satellite antenna to your DBS receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF IN on your VCR.
- 3 Using a coaxial connector, connect VHF/UHF OUT on your VCR to VHF/UHF on your projection TV.
- 4 Using AUDIO and S VIDEO connectors, connect AUDIO OUT and S VIDEO on your DBS receiver to AUDIO IN and S VIDEO on your VCR.
- 5 Using AUDIO and S VIDEO connectors, connect AUDIO OUT and S VIDEO on your VCR to AUDIO IN and S VIDEO on your projection TV (White-AUDIO Left, Red-AUDIO Right).

Notes:

- To view input from the DBS or VCR, select the video input which your DBS receiver or VCR is connected to by pressing TV/VIDEO on the remote control.
- If your VCR is not equipped with S VIDEO, connect VIDEO OUT on your VCR to VIDEO IN on your projection TV using AUDIO/VIDEO connectors.

Disconnect all power sources before making any connections.



11

Installing and Connecting the Projection TV (continued)

Connecting a camcorder

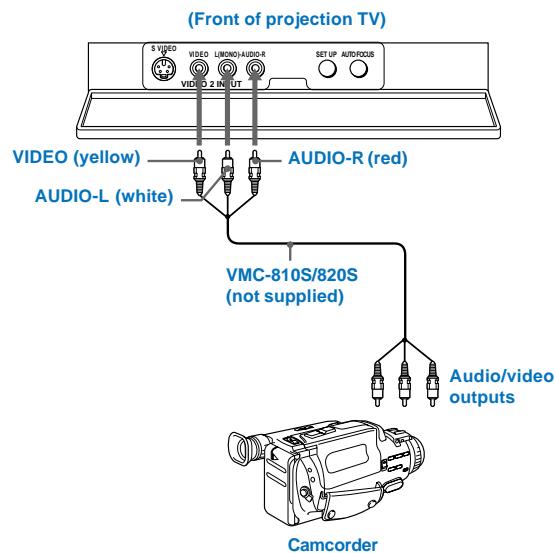
Use this connection to view a picture directly from your camcorder.

Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your camcorder to AUDIO and VIDEO IN on the front panel of your projection TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

Notes:

- If you are connecting a monaural camcorder, connect only the single audio output to the left (MONO) input on your projection TV.
- If you have an S Video equipped camcorder, you can use an S Video connection.

Disconnect all power sources before making any connections.



12

Connecting two VCRs for tape editing

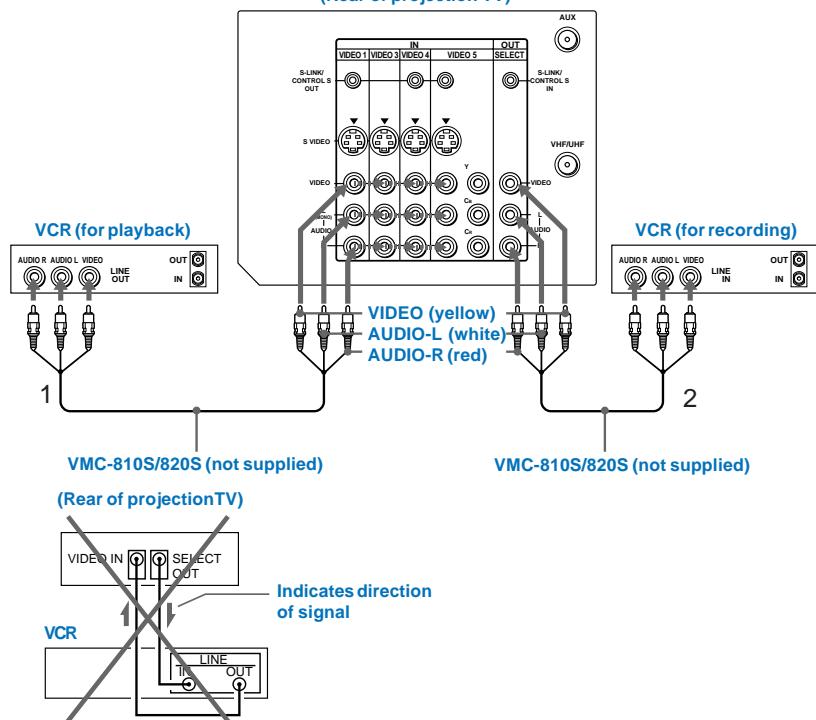
SELECT OUT gives you the ability to use a second VCR to record a program being played by the primary VCR or to perform tape editing and dubbing.

- 1 Connect the VCR intended for playback using the connection instructions on pages 6 and 7 of this manual.
- 2 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO IN on your VCR intended for recording to SELECT OUT AUDIO and VIDEO on your projection TV.

Notes:

- Do not change the input signal while editing through SELECT OUT.
- When connecting a single VCR to the projection TV: if VCR LINE OUT is connected to projection TV's VIDEO IN, *do not* connect the projection TV's SELECT OUT jacks to the VCR LINE INPUT (see right). Doing so will cause program interference and other viewing problems.
- You can select the output signal from SELECT OUT from the SET UP menu. (see "SELECT OUT" on page 48)

Disconnect all power sources before making any connections.
(Rear of projection TV)



13

Installing and Connecting the Projection TV (continued)

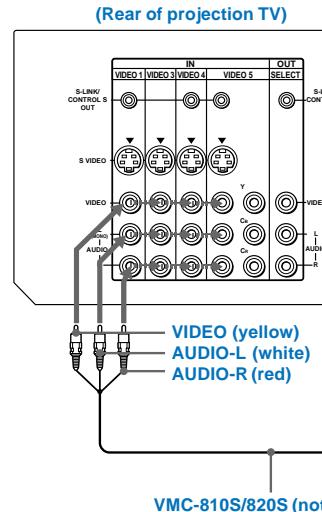
Disconnect all power sources before making any connections.

Connecting a DVD Player without component video output connectors

Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO IN on your projection TV to LINE OUT on your DVD Player.

Note:

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust NR in the ADVANCED VIDEO menu. (see "NR" on page 37)



Connect your DVD Player directly to your projection TV. Connecting the DVD Player through other video equipment will cause unwanted picture noise.

14

Disconnect all power sources before making any connections.

Connecting a DVD Player with component video output connectors

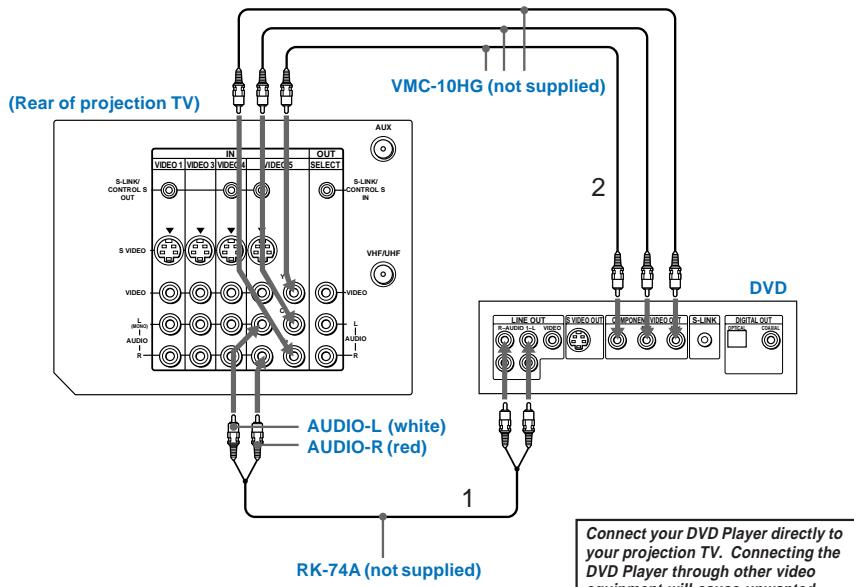
- 1 Using AUDIO connectors, connect AUDIO R and L of the LINE OUT on your DVD Player to AUDIO R and L on the VIDEO 5 IN panel at the rear of your projection TV.
- 2 Using three yellow VIDEO connectors, connect Y, C_B, and C_R on the COMPONENT VIDEO OUT on your DVD Player to Y, C_B, and C_R on the VIDEO 5 IN panel at the rear of your projection TV.

Notes:

- Some DVD Player terminals may be labeled differently. If so, connect as follows:

Connect	To
Y (green)	Y
C _B (blue)	C _B , B-Y or P _B
C _R (red)	C _R , R-Y or P _R

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust NR in the ADVANCED VIDEO menu. (see "NR" on page 37)



15

■ ■ ■ Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

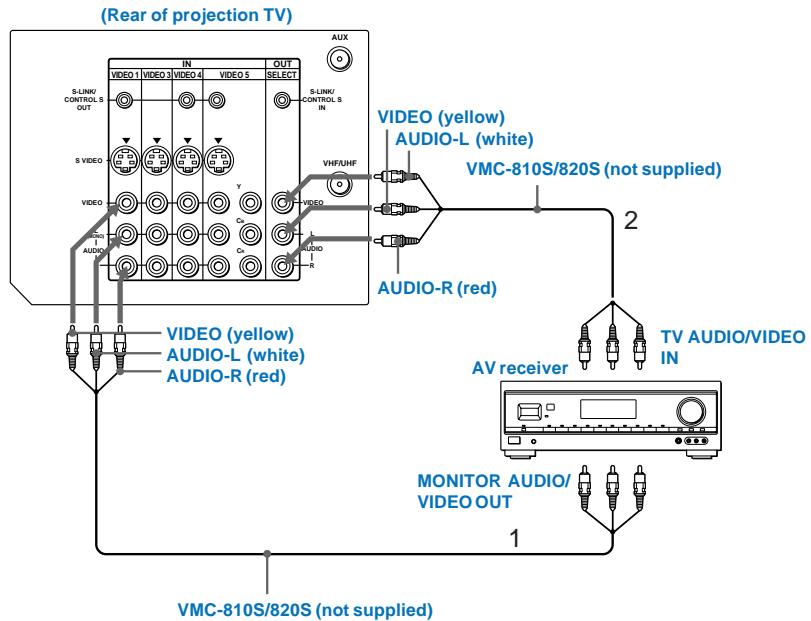
Connecting an AV receiver

For greater control of all audio and video equipment, connect your AV receiver.

- 1 Using AUDIO/VIDEO connectors, connect VIDEO 1 IN on your projection TV to Monitor AUDIO and VIDEO OUT on your AV receiver.
- 2 Using AUDIO/VIDEO connectors, connect SELECT OUT on your projection TV to TV AUDIO and VIDEO IN on your AV receiver.
- 3 Use the SET UP menu to set SELECT OUT to TV OUT. (see "SELECT OUT" on page 48)

Note:

- You may want to use CHANNEL FIX to fix your TV's input to the AV receiver (VIDEO 1). (see "CHANNEL FIX" on page 45)



16

Disconnect all power sources before making any connections.

Connecting an audio system

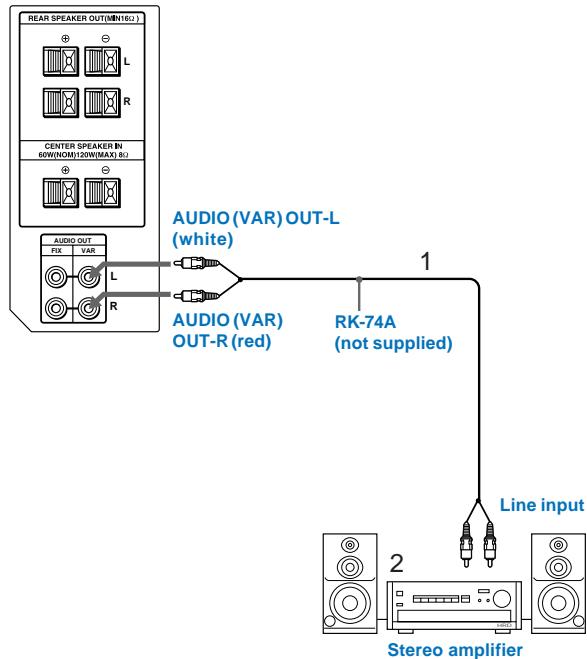
For more dynamic sound, connect your audio system to your projection TV.

- 1 Using AUDIO connectors, connect AUDIO (VAR) OUT on your projection TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on your stereo (White-AUDIO Left, Red-AUDIO Right).
- 2 Set your stereo to the chosen Line input and use the AUDIO menu to switch projection TV's speakers off. (see "SPEAKER" on page 38)

Note:

- You can adjust VOLUME, BASS, TREBLE and BALANCE through the projection TV on AUDIO (VAR) OUT only.

(Rear of projection TV)



17

■ ■ ■ *Installing and Connecting the Projection TV (continued)*

Disconnect all power sources before making any connections.

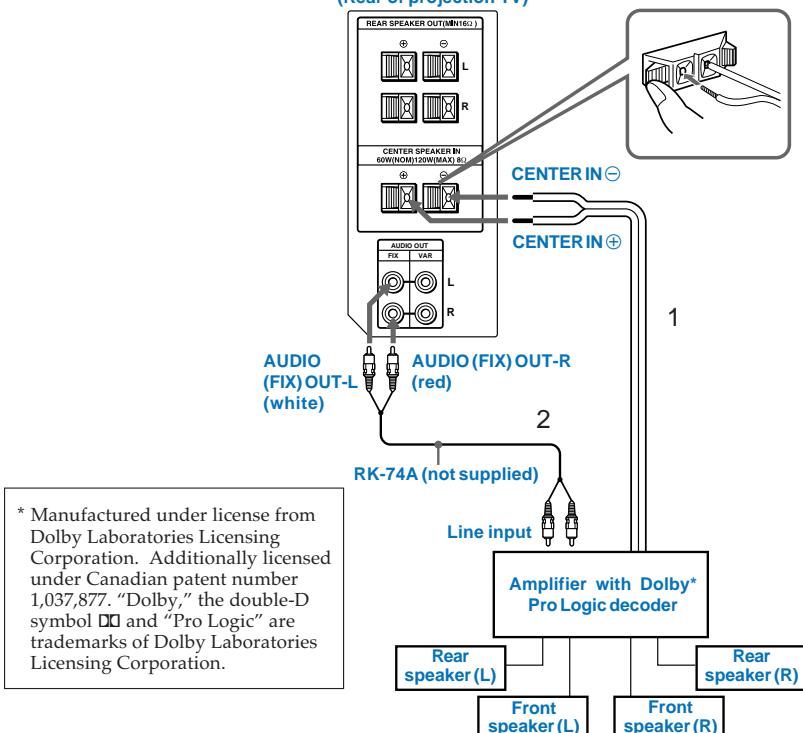
Connecting an amplifier with Dolby Pro Logic decoder

If you use an amplifier with Dolby Pro Logic decoder instead of the projection TV's audio system, you can still use the projection TV's center speaker.

- 1 Using the speaker cords (supplied with the amplifier), connect the speaker terminals on your amplifier to CENTER SPEAKER IN +/- on your projection TV.
- 2 Using AUDIO/VIDEO connectors, connect AUDIO (FIX) OUT on your projection TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on your amplifier (White-AUDIO Left, red-AUDIO Right).
- 3 Set your amplifier to the chosen Line input and use the AUDIO menu to set "SPEAKER" to "CENTER IN" on your projection TV. (see "SPEAKER" on page 38)

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby," the double-D symbol and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

(Rear of projection TV)



18

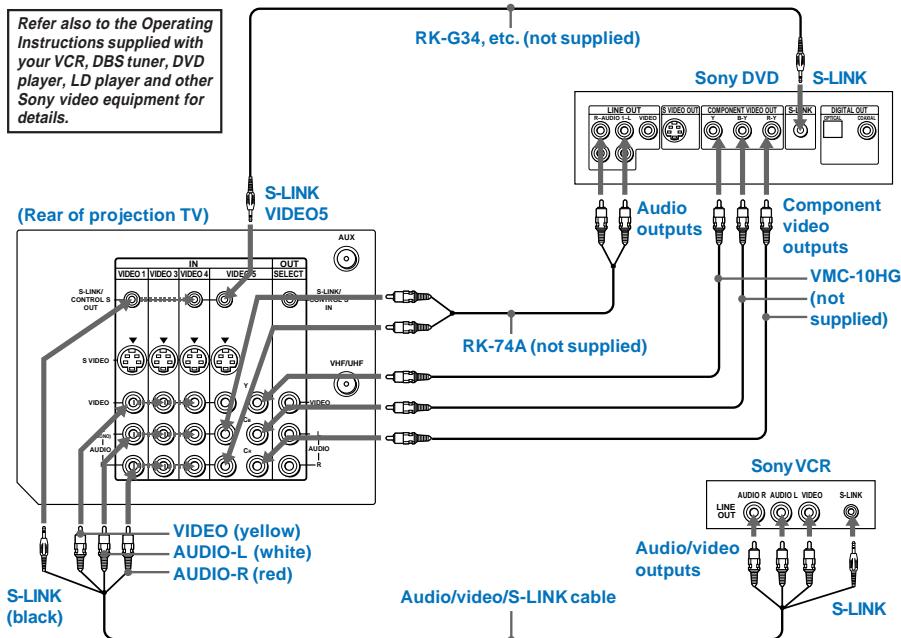
Disconnect all power sources before making any connections.

Using the S-Link/CONTROL S function

S-Link is a Sony innovation designed to make your Sony components work together. It allows you to automatically switch the projection TV's input mode to video when you press the play button on your Sony S-Link VCR. It also allows you to turn the VCR and projection TV off at the same time with the SYSTEM OFF button on the remote control.

Using the S-Link function without a Sony AV receiver

- 1 Connect your VCR. (see "Connecting an antenna/cable TV system with a VCR" or "Connecting to an S Video equipped VCR" on pages 6 and 7)
- 2 Using an S-LINK connector, connect the S-LINK jacks on your VCR (DVD) and projection TV. Ensure that both ends are seated firmly and that the projection TV's S-LINK jack is in the same row as the AUDIO/VIDEO connectors.



19

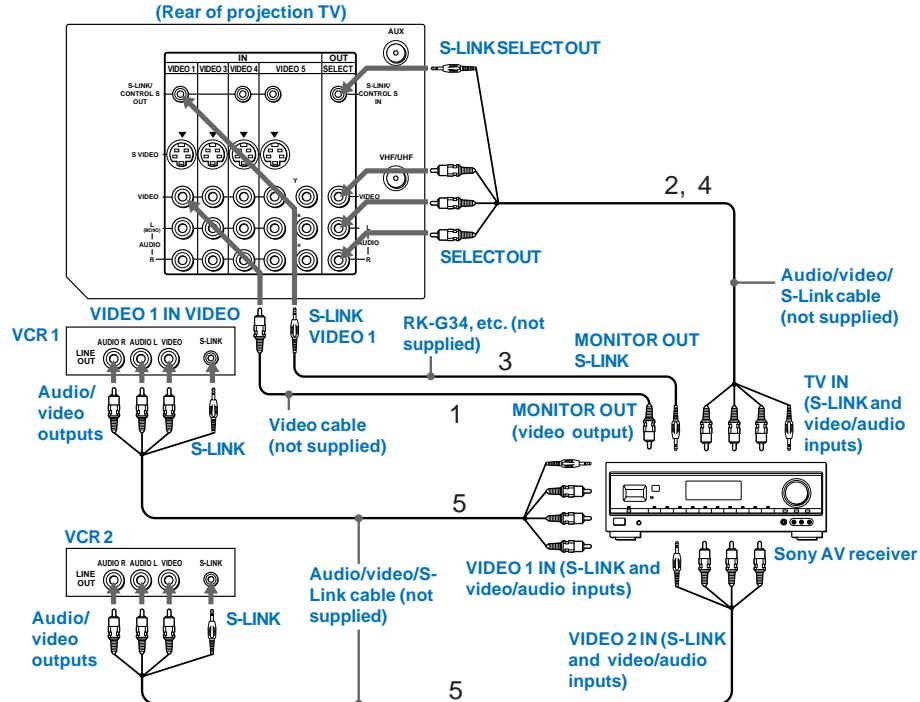
■ ■ ■ Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

Using the S-Link function with a Sony AV receiver

- 1 Using VIDEO connector, connect VIDEO 1 IN on your projection TV to MONITOR VIDEO OUT on your Sony AV receiver.
- 2 Using AUDIO/VIDEO connectors, connect SELECT OUT on your projection TV to TV AUDIO and VIDEO IN on your receiver.
- 3 Using an S-LINK connector, connect S-LINK on VIDEO 1 IN on your projection TV and S-LINK on MONITOR OUT on your AV receiver.
- 4 Using an S-LINK connector, connect projection TV's S-LINK on SELECT OUT to S-LINK on TV IN on your AV receiver.
- 5 Using AUDIO/VIDEO and S-LINK connectors, connect your Sony video equipment to your AV receiver.

Refer also to the Operating Instructions supplied with your VCR, DBS tuner, DVD player, LD player and other Sony video equipment for details.



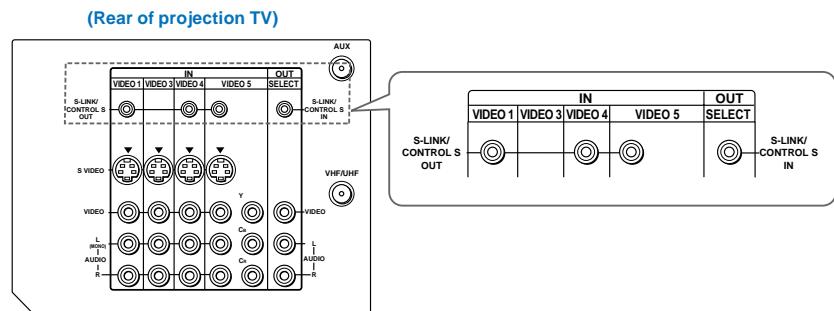
20

Using the CONTROL S feature

CONTROL S allows you to control your projection TV and other Sony equipment with one remote control.

To control other Sony equipment with your projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the projection TV with the CONTROL S cable.

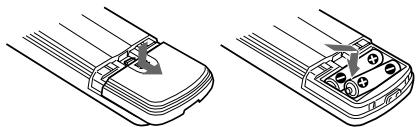
To control your projection TV with other Sony equipment's remote control, connect the CONTROL S OUT jack of the equipment to the CONTROL S IN jack on the projection TV with the CONTROL S cable.



Basic Set Up

Inserting Batteries

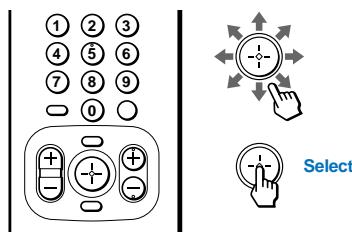
Insert two size AA (R6) batteries (supplied) by matching the + and - on the batteries to the diagram inside the remote control's battery compartment.



Notes:

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. (see "Operating Video Equipment" on page 52)

Using the Remote Control Joystick



The supplied remote control has a joystick which moves the on-screen selector in eight directions. In most cases, moving the joystick up, down, left or right will cause the selector to move in the selected direction.

In some cases, the selector may move in eight directions according to your moving direction. Pressing down on the center of the joystick (⊕) will activate the selected item.

You may also move the joystick right to activate the selected item. (There are some exceptions to this option.)

Adjusting Sliders

When menu items present a slider (— or —), move the joystick up, down, left or right to adjust the setting.

On Line Help/Instructions

Several menu windows will provide prompts and instructions to assist you in navigating through the different functions.

When the instructions are presented, use them to supplement the instructions in this manual.

■■■ Using Your New Projection TV

Setting Up the Projection TV Automatically

The AUTO SET UP feature will allow you to set the on-screen language and set all receivable channels. The AUTO SET UP screen will appear every time you turn on the projection TV until you perform AUTO PROGRAM.

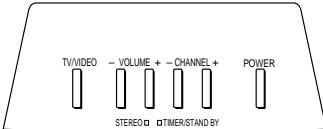
The AUTO SET UP feature does not apply for installations that use a cable box for all channel selection.

You can also set up the projection TV manually. (see "Using the CHANNEL SET UP menu" on page 43)

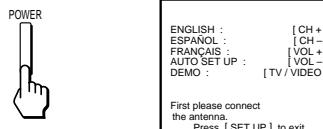
Notes:

- Before you perform AUTO SET UP again, make sure that the input from ANT (not AUX) is selected by pressing ANT until "AUX" does not appear next to the channel number.
- Perform this function during the day, with the antenna and / or cable properly connected, to ensure that all available channels will be broadcasting and receivable.
- When you perform AUTO PROGRAM, your CHANNEL FIX, ON/OFF TIMER, and CHANNEL BLOCK settings will be erased.
- When you perform AUTO PROGRAM, all the settings in the VIDEO, ADVANCED VIDEO and AUDIO menus are reset to the factory settings.

Using the buttons on the front panel of the projection TV:

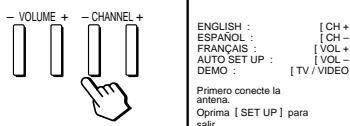


- 1 Press POWER to turn on the projection TV. Then press SET UP button inside the drop-down panel on the projection TV. The AUTO SET UP screen appears.



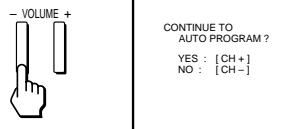
- 2 Press CHANNEL + to select English, CHANNEL - to select Spanish or VOLUME + to select French.

The screen will change to reflect your choice.

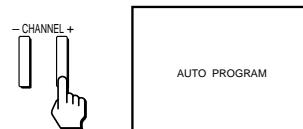


For a DEMO of functions and menus, press TV/VIDEO.

- 3 Press VOLUME - to continue.



- 4 Press CHANNEL + to preset channels automatically.



"AUTO PROGRAM" appears and the projection TV starts scanning and presetting channels automatically. While scanning, the received channel will be displayed on the sub screen. When all the receivable channels are stored, the lowest numbered channel is displayed. If the projection TV receives cable TV channels, CABLE is set to ON automatically.

(continued)

23

■■■ Using Your New Projection TV (continued)

To perform AUTO SET UP again

- Press SET UP inside the drop-down panel on the projection TV.
- Press CHANNEL +, CHANNEL - or VOLUME + to select a language.
- Press VOLUME - to restore factory settings ("CONTINUE TO AUTO PROGRAM?" will appear on the screen. Press CHANNEL+ to execute or CHANNEL- to exit).
- Press SET UP to exit.

Adjusting the Convergence Automatically (AUTO FOCUS)

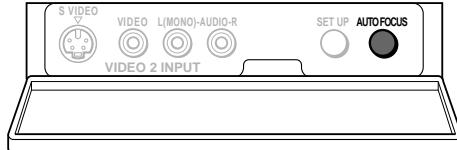
The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs.

Before you use your projection TV, be sure to adjust the convergence. The AUTO FOCUS feature allows you to adjust the convergence automatically.

Using the AUTO FOCUS button inside the drop-down panel on the projection TV:

Tip ☀

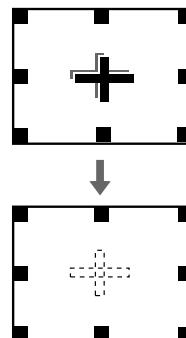
- It is recommended to perform AUTO FOCUS about 30 minutes after the projection TV is turned on.



Press AUTO FOCUS.



The cross pattern appears and auto convergence works. It is completed when the cross pattern becomes white.



Note:

- You will not be able to perform any other functions until AUTO FOCUS has completed its cycle.

Watching the TV

Many TV features can be accessed directly through the remote control. The following chart will explain the function of some buttons found on your remote control.



REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

Using the White Labeled Buttons for Projection TV Operations.

TV (FUNCTION)	Activates the remote control for use with the projection TV.
TV POWER	Turns the projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO until a channel number appears.
① - ⑨ and ENTER	Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0), the channel will change after 2 seconds, or you can press ENTER for immediate selection.
CH +/−	Press to scan through the channels (+ up or – down).
VOL +/−	Press to adjust the volume (+ up or – down).
JUMP	Press to alternate or <i>jump</i> back and forth between two channels. The projection TV will jump between the current channel and the last channel selected using the 0-9 buttons.
MUTING	Press to mute the sound. "MUTING" will appear on the screen and will dim three seconds later. Press again or press VOL + to restore sound.

(continued)

PICTURE MODE

Press PICTURE MODE repeatedly to choose one of five different video modes that best suits the program you are watching directly.

You can also adjust the picture items for each mode to suit your taste. When adjusting them, first select each MODE individually.

VIVID: Select for enhanced picture contrast and sharpness.

STANDARD: Select to display a standard picture.

MOVIE: Select to display a finely detailed picture.

GAME: Select to display graphics such as a video game.

PRO: Select to reproduce the original scene

For details, see "MODE" on page 35.

Using Your New Projection TV (continued)

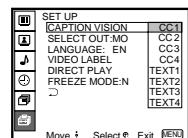
Using the White Labeled Buttons for Projection TV Operations.

FREEZE (yellow labeled button)	<p>Press to <i>freeze</i> the picture. Press again or press OFF to cancel.</p> <p>If you select TWIN as a FREEZE MODE in the SET UP menu, you can freeze the desired scene and display it on the left while viewing the normal picture on the right. (see "FREEZE MODE" on page 51)</p> <p>Note: If the frozen picture mode lasts for an hour, frozen mode will be canceled and the normal picture is resumed.</p>
SLEEP	<p>Press repeatedly until the projection TV displays the approximate time in minutes (30, 60, or 90) that you want the projection TV to remain on before shutting off automatically.</p> <p>Cancel by pressing until "SLEEP OFF" appears.</p>
DISPLAY	<p>Press to display the channel number, current time, channel caption (if set), and MTS mode (if SAP is selected). The SAP indication disappears and the other indications dim after three seconds.</p> <p>To turn the display off, press DISPLAY again.</p>
[CC]	<p>Press repeatedly to step through available displays:</p> <p>XDS XDS (Extended Data Service) shows a network name, program name, program type, program length, program description, call letters and time of the show if the broadcaster offers this service.</p> <p>Caption Vision Caption Vision will be displayed on the screen if the broadcaster offers this service. (see right)</p> <p>No display "OFF" appears and the display is canceled.</p>

CAPTION

VISION

(Closed Caption)



Some programs are broadcast with Caption Vision. To display Caption Vision, select [CC]1, [CC]2, [CC]3, [CC]4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. (see "CAPTION VISION" on page 48) Then press the [CC] button until Caption Vision is displayed.

[CC]1, [CC]2, [CC]3 or [CC]4 shows you a caption, that is, a printed version of the dialogue or sound effects of a program. (The mode should be set to [CC]1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 shows you text, that is, information presented, using half of the screen. It is not usually related to the program.

Notes:

- Poor reception of TV programs can cause errors in Caption Vision and XDS. Captions may appear with a white box or other errors instead of intended text.
- XDS, Caption Vision, and the status display cannot be used at the same time.



REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

Using the White Labeled Buttons for Projection TV Operations.	
TV/VIDEO	Press repeatedly to step through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4 and VIDEO 5 If you select SKIP as a VIDEO LABEL in the SET UP menu, your projection TV will skip the video input you selected. (see "VIDEO LABEL" on page 49)
ANT (AUX input)	Press to change between the VHF/UHF input and the AUX input. (for detailed connection information, see "Cable box and cable" or "Cable and antenna" on page 3)
MTS	Press to cycle through the Multi-channel TV Sound (MTS) options. (see "MTS" on page 38)
SYSTEM OFF (green labeled button)	Press to turn off the projection TV and all other equipment connected with S-Link. (see "Using the S-Link/CONTROL S function" on page 19)

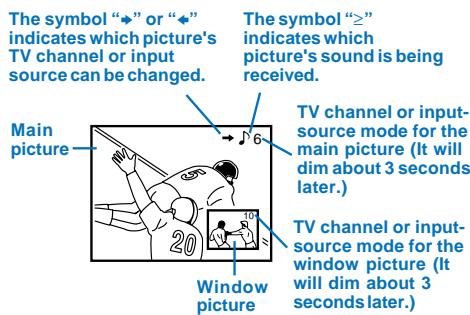
27

■ ■ ■ Using Your New Projection TV (continued)

Watching Two Programs at One Time — PIP

The Picture-in-Picture (PIP) feature allows you to view two channels simultaneously, one in the full size "main" picture and one in a smaller "window" picture.

In this feature you can move the location of a window picture as you like.



Using the Yellow Labeled Buttons for PIP Operations.	
	Press to display a window picture. Each time you press, the picture size will change (1/4 → 1/9 → 1/16). Press OFF to remove the window picture.
	Press to move the location of the window picture (counterclockwise) around the main picture.
	Press to allow you to alternate, between the main picture and the window picture, the picture for which you can change the TV channel or video source using the white labeled buttons below. The symbol "►" (or "◄") will appear, to indicate which picture's channel or input mode can be changed.
	To move the location of the window picture as you like, move and hold the joystick in any direction and release it when the picture is in the desired location.
	Press repeatedly to step through the available video inputs for the picture on which the symbol "►" (or "◄") is displayed. (see "TV/VIDEO" on page 27)



REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

Using the Yellow Labeled Buttons for PIP Operations.	
 (white labeled button)	Press to select the TV channel of the picture on which the symbol "➔" (or "◀") is displayed. (for details, see "Watching the TV" on page 25)
 (white labeled button)	Press to change between the VHF/UHF input and the AUX input of the picture on which the symbol "➔" (or "◀") is displayed.
	Press to alternate sound between the main picture and the window picture. The symbol "♪" will appear for a few seconds to indicate which picture's sound is being received.
	Great for copying down phone numbers, addresses, recipes, etc. Press to freeze the main and window pictures. The symbols "➔" and "♪," and the channel number disappear. Press again to resume PIP viewing. Press to cancel and resume normal TV viewing.
	Press to switch the audio and video of the main picture and the window picture. Each time you press SWAP, the picture and sound of the two will be exchanged.
	Press to access CHANNEL INDEX for direct channel selection. (see "Using CHANNEL INDEX" on page 32)
	Press to cancel PIP function and return to normal viewing.

Note:

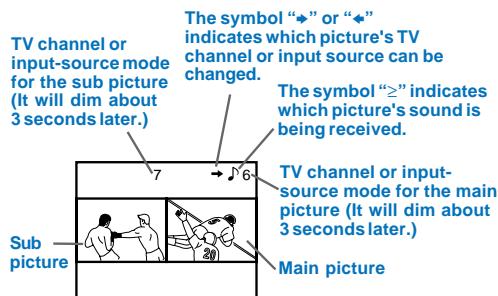
- If one of the pictures received through PIP is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP" on page 43)

■ ■ ■ Using Your New Projection TV (continued)

Watching Two Programs at One Time — P&P (Twin View™)

The Picture-and-Picture (P&P) feature allows you to view two channels simultaneously, both in a reduced size screen. The main picture will appear on the right.

In this feature you can change the size of both pictures as you like.

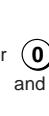


Using the Yellow Labeled Buttons for P&P Operations.	
	Press to display right (main) and left pictures. Press to remove the window picture.
 or 	Press and hold either RIGHT or LEFT to zoom in on the selected picture. Release at the desired size. The other picture will be zoomed out simultaneously. Moving and holding the joystick right or left will activate the same function.
	Press to allow you to alternate, between the right and left pictures, the picture for which you can change the TV channel or video source using the white labeled buttons below. The symbol "➔" (or "◀") will appear, to indicate which picture's channel or input mode can be changed.
 (white labeled button)	Press repeatedly to step through the available video inputs for the picture on which the symbol "➔" (or "◀") is displayed. (see "TV/VIDEO" on page 27)

 REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

Note:

- If one of the pictures received through P&P is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP" on page 43)

Using the Yellow Labeled Buttons for P&P Operations.	
 or  and ENTER <i>(white labeled button)</i>	Press to select the TV channel for the picture on which the symbol "▲" (or "▼") is displayed. (for details, see "Watching the TV" on page 25)
ANT  <i>(white labeled button)</i>	Press to change between the VHF/UHF input and the AUX input of the picture on which the symbol "►" (or "◄") is displayed.
AUDIO 	Press to alternate sound between the right and left pictures. The symbol "♪" will appear for a few seconds to indicate which picture's sound is being received.
FREEZE 	Great for copying down phone numbers, addresses, recipes, etc. Press to freeze both the right and left pictures. Press again to resume P&P viewing or press OFF to cancel and resume normal TV viewing.
SWAP 	Press to switch the audio and video of the right and left pictures. Each time you press SWAP, the picture and sound of the two will be exchanged.
OFF 	Press to cancel P&P function and return to normal viewing.

31

■ ■ ■ Using Your New Projection TV (continued)

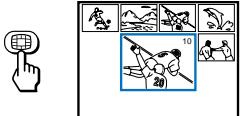
Using CHANNEL INDEX

You can use the CHANNEL INDEX feature to display multiple channels for direct selection.

Channels used for CHANNEL INDEX will come directly from the TV's list of receivable channels (those set during AUTO PROGRAM or through the CHANNEL SET UP menu).

1 Press .

The current channel will be reduced in size and displayed in the center of the screen in normal motion picture format. The first twelve receivable channels will appear one after another, clockwise, surrounding the center picture. These small pictures move and pause alternately, in intervals of one second. (The channel number and channel caption (if set) on the second and later appearances will dim.)



A cyan frame will appear to indicate current channel selection.

2 Move the joystick in any of eight directions to move the cyan frame to the picture that you wish to view, and press .



The selected channel will zoom in and move to the center, and the sound of that channel will be heard.



3 If you wish to view another channel, repeat step 2.

To view the normal picture of the selected channel, proceed to step 4.

4 Press .

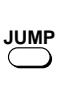
The center picture will be enlarged into the whole screen for normal viewing.



Notes:

- You cannot move the cyan frame until all of the surrounding pictures appear.
- The projection TV will continually update each of the surrounding pictures while the CHANNEL INDEX screen is displayed.
- Sound will only be heard from the center picture while the CHANNEL INDEX screen is displayed.
- If one of the pictures received through CHANNEL INDEX is snowy, the entire screen may become unstable. In this case, erase the snowy channel using CHANNEL SKIP. (see "CHANNEL SKIP" on page 43)
- If you leave the CHANNEL INDEX screen displayed for an hour without any operation, CHANNEL INDEX will be canceled and normal picture appears.

 REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

Using the Yellow Labeled Buttons for CHANNEL INDEX Operations.	
	Press to display the next twelve receivable channels.
	Press to cancel the current operation and return to normal TV viewing.
FREEZE	Press to freeze the center picture. Press again to cancel the frozen picture and resume normal center picture viewing.
Using the White Labeled Buttons for Center Picture Operations.	
TV/VIDEO	Press to cycle the center picture through the video inputs. The surrounding channels will not change.
ANT	Press to replace the center picture with a channel through between the VHF/UHF input and the AUX input.
 or  and ENTER	 Press to select the channel for the center picture. (for details, see "Watching the TV" on page 25)

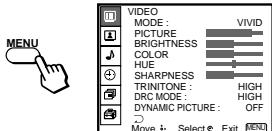
■ ■ ■ Adjusting Your SET UP (menus)

Learning Menu Selection

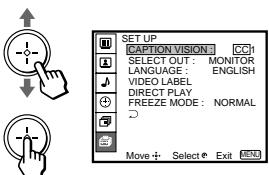
Use the MENU button to access a menu and use the joystick to alter settings. Use the following example to learn how to modify settings.

- 1 Press the MENU button.

The main menu appears.

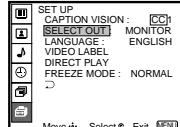


- 2 Move the joystick up or down to highlight the desired menu and press  (press down on the center of the joystick) to activate it.



You may also move the joystick right to activate your selection.

- 3 Move the joystick up or down to highlight the desired option.



- 4 Press  (press down on the center of the joystick).

Options of your selection (Pop-up menu or Adjusting menu) will be displayed.

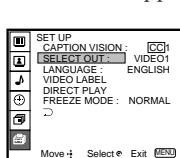


Pop-up menu



Adjusting menu

- 5 Move the joystick up or down to make your selection and press  to activate it. The previous screen will reappear.



Some adjustment menus may require further operations. For details, see each menu option.

When you have finished your changes to the selected menu, choose  at the bottom of the menu and press  to return to the previous screen.

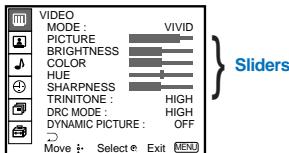
You may also move the joystick left to return to the previous screen except for the slider adjustment menus.

Once you have completed all menu corrections, press MENU to exit the menu screens.

Note:

- Pressing MENU will allow you to exit from the menus at any time.

■ Using the VIDEO Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 34.

To select the VIDEO ■ menu:

Display → Highlight ■ → Select



To restore the factory settings

Press RESET on the remote control while the VIDEO menu is selected. To restore each MODE to the factory setting, press RESET after selecting the mode to be reset.

MODE <i>Customized picture viewing</i>	You can choose one of five different video modes that best suits the program you are watching. You can also adjust the picture items for each mode to suit your taste. When adjusting them, first select each MODE individually. VIVID: Select for enhanced picture contrast and sharpness. STANDARD: Select to display a standard picture. MOVIE: Select to display a finely detailed picture. GAME: Select to display graphics such as a video game. PRO: Select to reproduce the original scene.
PICTURE <i>Picture Adjustment</i>	Adjust slider right (up) to increase picture contrast. Adjust slider left (down) to decrease picture contrast.
BRIGHTNESS <i>Picture Adjustment</i>	Adjust slider right (up) to brighten the picture. Adjust slider left (down) to darken the picture.
COLOR <i>Picture Adjustment</i>	Adjust slider right (up) to increase color intensity. Adjust slider left (down) to decrease color intensity.
HUE <i>Picture Adjustment</i>	Adjust slider right (up) to increase the green tones. Adjust slider left (down) to increase the red tones.
SHARPNESS <i>Picture Adjustment</i>	Adjust slider right (up) to sharpen the picture. Adjust slider left (down) to soften the picture.
TRINITONE <i>White Intensity Adjustment</i>	HIGH: Select to give the white colors a blueish tint. MEDIUM: Select to give the white colors a neutral tint. NTSC STD: Select to give the white colors a reddish tint.

(continued)

Tip ☀

Press PICTURE MODE on the remote control for direct selection of a MODE setting.

35

■ ■ ■ Adjusting Your SET UP (menus) (continued)

DRC MODE <i>Digital Reality Creation</i>	The DRC feature doubles both the vertical and horizontal information of the conventional NTSC signal, allowing you to obtain a fine-detailed real picture with four times higher-density than the conventional NTSC picture. You can choose HIGH or LOW level. For graphics such as a video game, choose GAME .
DYNAMIC PICTURE <i>Black Intensity Adjustment</i>	Select ON to emphasize the black level and so produce a bolder dynamic picture. Select OFF to cancel the feature.

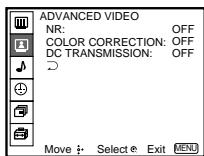
Note:

- Some shooting games in which you point a light beam at the TV screen with an electronic gun or rifle cannot be used with this projection TV. For details, see the instruction manual applied with the video game software.

Tip ☀

Since the fine-detailed DRC activated pictures contain information four times larger than conventional pictures, picture noise may appear. In this case, set NR to ON in the ADVANCED VIDEO menu.

Using ADVANCED VIDEO Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 34.

NR <i>Noise Reduction</i>	Select ON to reduce picture noise. Select OFF to cancel the feature.
COLOR CORRECTION <i>Color Ratio Adjustment</i>	Select ON to emphasize reds and blues. Select OFF to enhance skin tones (greens).
DC TRANSMISSION <i>Black Level Adjustment</i>	Select ON to automatically improve contrast ratio. Select OFF to reproduce the black level with no compensation.

To select the ADVANCED VIDEO menu:

Display → Highlight → Select



To restore the factory settings

Press RESET on the remote control while the ADVANCED VIDEO menu is selected.

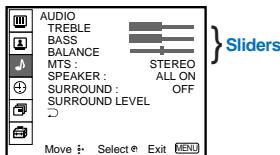
Note:

- The items in the ADVANCED VIDEO menu can be set separately from the MODE settings of the VIDEO menu.

37

Adjusting Your SET UP (menus) (continued)

Using the AUDIO Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 34.

To select the AUDIO menu:

Display → Highlight → Select



To restore the factory settings

Press RESET on the remote control while the AUDIO menu is selected.

TREBLE <i>Sound Adjustment</i>	Adjust slider right (up) to increase high pitched sounds. Adjust slider left (down) to decrease high pitched sounds.
BASS <i>Sound Adjustment</i>	Adjust slider right (up) to increase low pitched sounds. Adjust slider left (down) to decrease low pitched sounds.
BALANCE <i>Sound Adjustment</i>	Adjust slider right (up) to emphasize right speaker volume. Adjust slider left (down) to emphasize left speaker volume.
MTS <i>Enjoy stereo, bilingual and mono programs.</i>	STEREO: Select for stereo reception when viewing a program broadcast in stereo. SAP: Select to listen to a bilingual broadcast. (non-SAP programs will be muted when this feature is selected) MONO: Select for mono reception. (use to reduce noise during stereo broadcasts) Quick MTS access: Press MTS on your remote control to cycle through the MTS options as follows: (STEREO → SAP → MONO → STEREO)
SPEAKER <i>Custom selection of audio output source.</i>	ALL ON: Select to listen to the sound from the projection TV speakers alone. L/R OFF: Select to turn off the projection TV left and right speakers and listen to the left and right channel sounds through a separate audio system's speakers. ALL OFF: Select to turn off the projection TV speakers and listen to the projection TV's sound only through an external audio system's speakers. CENTER IN: Select to use the projection TV center speaker as center speaker when you connect an amplifier with Dolby Pro Logic decoder. (see "Connecting an amplifier with Dolby Pro Logic decoder" on page 18)

38

SURROUND <i>Customize surround sound effects based on the program's audio type</i>	SURROUND can only be set when SPEAKER is set to ALL ON or L/R OFF. PRO LOGIC: Produces superb theater-like surround effects. Most effective for programs encoded in Dolby surround. 3 STEREO: Produces a dynamic three dimensional sound without using the rear speakers. The sound of the rear channel is output from the front speakers. SIMULATED: Adds a surround-like effect to mono programs. LIVE: Produces surround effects with the atmosphere of a concert hall. GAME: Produces maximum audio impact. Most effective for video games. OFF: Normal stereo or mono reception.
SURROUND LEVEL <i>Speaker volume adjustment for surround modes</i>	After selecting any surround mode, adjust the volume of each speaker so that the sound will be even and natural. (see "Adjusting the speaker volume for customized surround mode" on page 40)

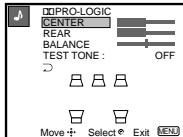
■ ■ ■ Adjusting Your SET UP (menus) (continued)

Adjusting the Speaker Volume for Customized Surround Mode

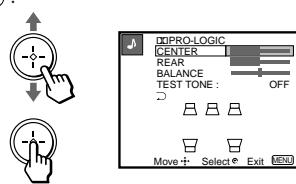
After you set SURROUND to any mode, adjust the volume of the front, center and rear speakers to the same level so that the projection TV's sound will be even and natural. For PRO LOGIC and 3 STEREO, adjust the speaker volume using the test tone feature.

Adjusting the speaker volume

- 1 Select SURROUND LEVEL from the AUDIO menu. (see pages 38 and 39)



- 2 Move the joystick up or down to select the speaker for volume adjustment and press \oplus .



CENTER: Select to adjust the level of center speaker. (not available for SIMULATED)

REAR: Select to adjust the level of rear speakers. (not available for 3 STEREO)

BALANCE: Select to adjust the balance between right and left speakers.

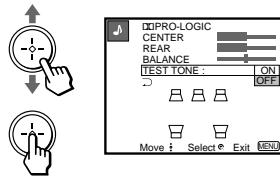
- 3 Move the joystick up, down, left or right to adjust the volume level and press \oplus .

- 4 Use the joystick to select other speakers and to adjust the volume levels.

Adjusting the speaker volume using the test tone

The TEST TONE feature makes it easier to adjust the volume level. You can use this feature for PRO LOGIC and 3 STEREO modes only.

- 1 With the SURROUND LEVEL window open, move the joystick up or down to select TEST TONE and press \oplus .



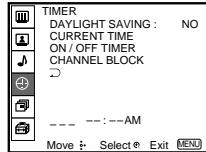
- 2 Move the joystick up or down to select ON.

A test tone will be output from each speaker in sequence:
Front left → Center → Front right → Rear

To turn off the test tone, select OFF.

- 3 Follow steps 2 through 4 in "Adjusting the speaker volume."

④ Using the TIMER Menu



After setting the clock you can use the timer to turn the projection TV on and off.

For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 34.

To select the TIMER menu:

Display → Highlight → Select

Tip

Set daylight saving time before setting the clock. Any loss of power will cause these settings to be erased.

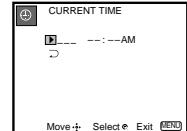
DAYLIGHT SAVING *Automatically adjusts the time.*

Spring: Select YES to compensate for Daylight Saving Time.
The current time automatically moves ahead one hour.
Fall: Select NO at the end of Daylight Saving Time.
The current time moves back one hour.

CURRENT TIME SET *Necessary for the TIMER.*

- 1 Press , then move the joystick up or down until the current day (MON-SUN) is displayed, and press .
- 2 Move the joystick up or down until the current hour (01-12) and AM/PM is displayed, and press .
- 3 Move the joystick up or down until the current minute (00-59) is displayed, and press .

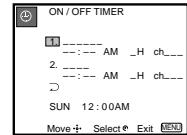
The Clock has now started. Press MENU to exit.



ON/OFF TIMER *Wake up or scheduled viewing.*

- 1 Select the desired timer (1 or 2).
- 2 Move the joystick up or down until the desired day (MON-SUN) or range of days (EVERY SUN-SAT or EVERY MON-FRI) is displayed, and press .
- 3 Move the joystick up or down until the time (hours and minutes) that you want the projection TV to remain on is displayed, and then press .
- 4 Move the joystick up or down to set the time duration (maximum of 6 hours) and press .
- 5 Move the joystick up or down to select the desired channel and press .

The timer is now set. The TIMER indicator on your projection TV will be lit. Press MENU to exit. To cancel your timer setting, select timer 1 or 2 and press RESET while in the ON/OFF TIMER window. Performing AUTO PROGRAM will erase all TIMER settings.



(continued)

41

■ ■ ■ Adjusting Your SET UP (menus) (continued)

CHANNEL BLOCK

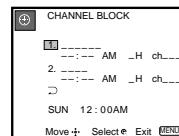
Prevent access to certain channels.

You will be able to block two channels for a period of up to 24 hours.

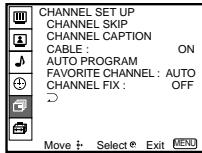
- 1 Select the desired timer (1 or 2).
- 2 Move the joystick up or down until the desired day (MON-SUN) or range of days (EVERY SUN-SAT or EVERY MON-FRI) is displayed, and press .
- 3 Move the joystick up or down until the time (hours and minutes) that you want the projection TV to turn off is displayed, and then press .
- 4 Move the joystick up or down to set the time duration (maximum of 24 hours) and press .
- 5 Move the joystick up or down to select the desired channel and press .

Press MENU to exit. If you select the blocked channel during the period you set, only the symbol "🔒" is displayed in the center of the screen and the sound is muted.

To erase your CHANNEL BLOCK settings, select timer 1 or 2, then press RESET while in the CHANNEL BLOCK window. Performing AUTO PROGRAM will erase your CHANNEL BLOCK settings.



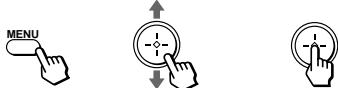
Using the CHANNEL SET UP Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 34.

To select the CHANNEL SET UP menu:

Display → Highlight □ → Select

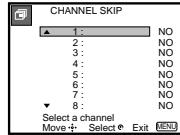


CHANNEL SKIP *Skip unnecessary channels*

After AUTO SET UP, you can erase unnecessary channels from the channel preset memory. You can also recover those channels again.

With the CHANNEL SKIP window open:

- 1 Move the joystick up or down to select the desired channel. You can view the channel that is selected with the CHANNEL SKIP menu in the center sub screen. You can also use CH +/- or 0-9 and ENTER buttons.
- 2 Press \oplus .
- 3 Move the joystick up or down to select YES, and press \oplus . The selected channel will be erased.
If you want to re-enter the skipped channel, follow the steps above and select NO.



(continued)

43

Adjusting Your SET UP (menus) (continued)

CHANNEL CAPTION <i>Easy recognition of the channel you are watching</i>	<p>You can add a caption for up to 32 channels of both VHF/UHF and AUX inputs. You can make your own caption.</p> <p>With the CHANNEL CAPTION window open:</p> <ol style="list-style-type: none"> 1 Press \oplus and then move the joystick up or down to select the desired channel. You can view the channel that is selected with the CHANNEL CAPTION menu in the center sub screen. 2 Press \oplus. 3 Move the joystick up or down to display the first letter or number of the caption and press \oplus to select it. Repeat until up to four digits are selected. 4 Press \oplus. <i>To erase a caption, press RESET.</i>
CABLE <i>Cable system setting</i>	<p>Select ON if your projection TV is connected to a cable system. Select OFF if your projection TV is connected to an antenna. AUTO SET UP will set CABLE to OFF automatically if a cable channel is not available.</p>
AUTO PROGRAM <i>Automatic channel presetting</i>	<p>Select YES to signal the projection TV to automatically program all receivable channels. When all the receivable channels are stored, the lowest numbered channel is displayed. Select NO to cancel AUTO PROGRAM.</p>

44

FAVORITE CHANNEL <i>User's favorite channels</i>	The FAVORITE CHANNEL feature enables easy access to the eight channels that you preset (or the last channel that you were watching). (for details on how to set up this feature, see "Setting and Selecting FAVORITE CHANNEL" on page 46)
CHANNEL FIX <i>Locks selection of your projection TV's input (To be used in conjunction with external equipment such as a cable box, AV receiver, etc.)</i>	<p>2-6: When the cable box is connected to the VHF/UHF input, you can fix the TV's input by selecting channels 2-6. Press DBS/CABLE (FUNCTION) and then CH +/- to change the cable box channels.</p> <p>AUX 2-6: When a cable box is connected to AUX and a cable or antenna is connected to VHF/UHF.</p> <p>VIDEO 1: When you have connected external video equipment (e.g. AV receiver) and you want the projection TV's input fixed to it.</p> <p>OFF: When you want to switch CHANNEL FIX off.</p> <p>If the projection TV is in the AUX mode when you turn CHANNEL FIX off, press ANT to return to UHF input mode.</p> <p><i>TIMER and CHANNEL BLOCK settings are erased when CHANNEL FIX is set. (If ANT2-6 or AUX2-6 is selected, timer settings for those channels remain)</i></p>

■ ■ ■ Adjusting Your SET UP (menus) (continued)

Setting and Selecting FAVORITE CHANNEL

The FAVORITE CHANNEL feature of your new projection TV enables easy access to the eight channels that you preset (or the last channel that you were watching).

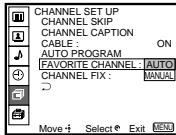
Your FAVORITE CHANNEL options can be set automatically or manually.

The factory setting for FAVORITE CHANNEL is AUTO.

When FAVORITE CHANNEL is set to AUTO, the last eight channels selected with the 0-9 buttons will be set as FAVORITE CHANNEL options. If you prefer to your own selection as FAVORITE CHANNEL options, set to MANUAL.

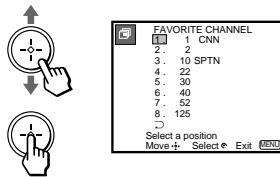
Setting FAVORITE CHANNEL manually

- Select FAVORITE CHANNEL from the CHANNEL SET UP menu. (see page 45)

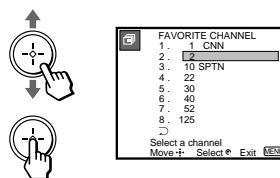


- Move the joystick up or down to select MANUAL and press +.

The FAVORITE CHANNEL menu will appear. If you set CHANNEL CAPTION, captions (e.g. CNN, HBO) for the channels will be displayed. (see "CHANNEL CAPTION" on page 44)

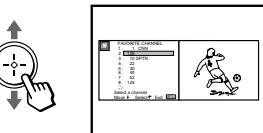


- Move the joystick up or down to select a position (1-8), and press +.



- Move the joystick up or down to select a channel.

You have now selected a favorite channel for the position you selected.



- Press + and use the joystick to select other FAVORITE CHANNEL positions and program other favorite channels. (Follow steps 3 and 4.)

- Press MENU when you have finished.

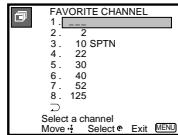
Your favorite channels are now ready to use.

Resetting FAVORITE CHANNEL choices

You have the option of returning to the FAVORITE CHANNEL screen to adjust any of your favorite channel choices.

Simply proceed as described in "Setting FAVORITE CHANNEL manually" (skip step 2 if MANUAL is already selected).

When you reach step 3, select the position you want to change and press \oplus . Press RESET to clear the channel for that position.



Move the joystick up or down to select a new channel.

Press MENU when you are done.

Note:

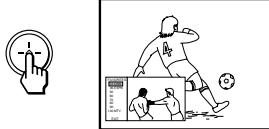
- The FAVORITE CHANNEL feature is not available for the AUX input.

Using FAVORITE CHANNEL

You can use the FAVORITE CHANNEL feature to display a favorite channel menu with a window picture for direct selection.

1 Press \oplus once.

The favorite channel menu and a window picture will be superimposed over the current channel. The window picture displays the channel selected from the menu.



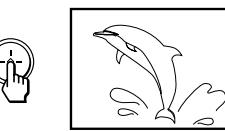
2 Move the joystick up or down to select a channel that you wish to view from the menu.

The picture of the selected channel will be displayed in the window picture.



3 Press \oplus to select the channel.

The selected channel will be displayed for normal viewing.

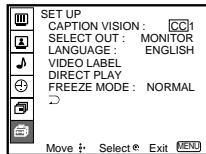


To cancel the favorite channel menu before selecting a channel, move the joystick up or down to select EXIT at the bottom of the menu and press \oplus .

47

Adjusting Your SET UP (menus) (continued)

Using the SET UP Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 34.

To select the SET UP menu:

Display \rightarrow Highlight \rightarrow Select



Notes:

- When you set SELECT OUT to TV OUT, you cannot swap the main/right and window/left pictures.
- The SELECT OUT signal is only available when the projection TV is on.

CAPTION VISION

*Television closed
caption display*

Some programs are broadcast with Caption Vision.

To display Caption Vision, select the desired option and press CC .

CAPTION VISION options: $\text{CC}1, \text{CC}2, \text{CC}3, \text{CC}4, \text{TEXT}1, \text{TEXT}2, \text{TEXT}3$ or $\text{TEXT}4$. (for details, see "CAPTION VISION" on page 26)

SELECT OUT

*Output signal
selection from
SELECT OUT*

You can select the desired output signal from the SELECT OUT jacks at the rear of the projection TV.

MONITOR: Select to edit tapes while monitoring.

SELECT OUT outputs the picture displayed on

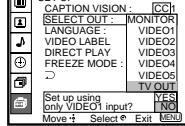
the projection TV screen.

VIDEO1–VIDEO5: Select to edit tapes while viewing an input image different from that being recorded.

SELECT OUT outputs the signal input to the projection TV regardless of the displayed picture on the screen.

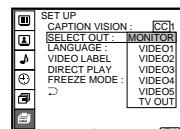
TV OUT: Select if you connect an AV receiver to VIDEO 1 IN. SELECT OUT outputs the signal that the TV is tuned to, regardless of the displayed picture. (see "Connecting an AV receiver" on page 16 for connection)

If you select TV OUT, a pop-up menu appears.



Select **YES** only if you connect an AV receiver, with no other equipment, to your projection TV. You can always select the signal from the receiver by pressing TV/VIDEO once.

Select **NO** if you connect multiple components to your projection TV. You can select an input (VIDEO1 – VIDEO5) with the TV/VIDEO button.



LANGUAGE <i>User's preferred language</i>	Select from available languages (English, Spanish or French) to display all menus in your language of choice.																		
VIDEO LABEL <i>Easy recognition of connected equipment (e.g. DBS, VHS, etc.).</i>	<p>This feature allows you to label each input mode so that you can easily identify the connected equipment (e.g. you can label VIDEO 1 IN as VHS).</p> <p>With the VIDEO LABEL window open:</p> <ol style="list-style-type: none"> Move the joystick up or down to select the input mode you want to label and press \oplus. <p>VIDEO LABEL</p> <table border="1"> <tr><td>VIDEO1:</td><td>VIDEO1</td></tr> <tr><td>VIDEO2:</td><td>VHS</td></tr> <tr><td>VIDEO3:</td><td>8mm</td></tr> <tr><td>VIDEO4:</td><td>BETA</td></tr> <tr><td>VIDEO5:</td><td>LD</td></tr> <tr><td>...</td><td>DBS</td></tr> <tr><td></td><td>DVD</td></tr> <tr><td></td><td>AV RECEIVER</td></tr> <tr><td></td><td>SKIP</td></tr> </table> <p>Move + Select \ominus Exit [MENU]</p> <ol style="list-style-type: none"> Move the joystick up or down to select the label and press \oplus. <p>VIDEO LABEL Options:</p> <p>VIDEO 1: VIDEO 1, VHS, 8mm, BETA, LD, DBS, DVD, AV RECEIVER, SKIP</p> <p>VIDEO 2–5: VIDEO 2–5, VHS, 8mm, BETA, LD, DBS, DVD, SKIP</p> <p>If you select SKIP, your projection TV will skip this connection when you scan through video sources using the TV/VIDEO button.</p>	VIDEO1:	VIDEO1	VIDEO2:	VHS	VIDEO3:	8mm	VIDEO4:	BETA	VIDEO5:	LD	...	DBS		DVD		AV RECEIVER		SKIP
VIDEO1:	VIDEO1																		
VIDEO2:	VHS																		
VIDEO3:	8mm																		
VIDEO4:	BETA																		
VIDEO5:	LD																		
...	DBS																		
	DVD																		
	AV RECEIVER																		
	SKIP																		

49

■ ■ ■ Adjusting Your SET UP (menus) (continued)

DIRECT PLAY <i>Easy operation of a connected VCR</i>	<p>This feature allows you to switch the input mode from TV to Sony's VCR (MDP or DVD) and start playing by only pressing the \blacktriangleright (playback) button on the remote control. You have to set the VTR 1/2/3/DVD/MDP switch on the remote control (e.g., you connect your VCR to the VIDEO 3 IN jacks and set the VTR 1/2/3/DVD/MDP switch to VTR 1). With the DIRECT PLAY window open:</p> <ol style="list-style-type: none"> Move the joystick up or down to select the input to which your video equipment is connected, and press \oplus. <p>DIRECT PLAY</p> <table border="1"> <tr><td>VIDEO1:</td><td>OFF</td></tr> <tr><td>VIDEO2:</td><td>VTR1</td></tr> <tr><td>VIDEO3:</td><td>VTR2</td></tr> <tr><td>VIDEO4:</td><td>VTR3</td></tr> <tr><td>VIDEO5:</td><td>DVD/MDP</td></tr> <tr><td>...</td><td>DVD/MDP</td></tr> </table> <p>Move + Select \ominus Exit [MENU]</p> <ol style="list-style-type: none"> Move the joystick up or down to select the position of the VTR 1/2/3/DVD/MDP switch, and press \oplus. 	VIDEO1:	OFF	VIDEO2:	VTR1	VIDEO3:	VTR2	VIDEO4:	VTR3	VIDEO5:	DVD/MDP	...	DVD/MDP
VIDEO1:	OFF												
VIDEO2:	VTR1												
VIDEO3:	VTR2												
VIDEO4:	VTR3												
VIDEO5:	DVD/MDP												
...	DVD/MDP												

FREEZE MODE	Ideal for copying down phone numbers, addresses, recipes, etc.
<i>Freeze picture mode</i>	NORMAL: Select to freeze the whole picture on the screen by pressing FREEZE.
	The current picture freezes.
	TWIN: Select to freeze the desired scene and display it on the left of the screen while viewing the normal motion picture of the current channel on the right by pressing FREEZE.
	This mode is not available for PIP, P&P or CH INDEX screens.
	Press again or press (OFF) to display the normal picture.

51

 Operating Video Equipment

Setting the Manufacturer's Code

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared sensor.

- 1 Set the VTR 1/2/3/DVD/MDP switch to the position through which you would like to access the video equipment.

The following Sony equipment is preset to each position of the switch:

VTR1 (303) Beta, ED Beta VCRs
VTR2 (302) 8 mm VCR
VTR3 (301) VHS VCR
DVD/MDP (751) DVD Player

2 Press CODE SET, DVD/VTR (FUNCTION), the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony 8mm VCR:



If the remote control doesn't work

- See the note on page 54.

VCR manufacturer code numbers	
Manufacturer	Code
Sony	301, 302, 303
Aiwa	338
Admiral (M. Ward)	327
Audio Dynamic	314, 337
Bell & Howell (M. Ward)	330, 343
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	315, 302, 332
Criterion	315
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Go Video	340, 339, 322
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 329, 312, 313, 310
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
Sylvania	308, 309, 338, 310
Symphonic	338
SV2000	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Teknika	342, 338
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
XR-1000	315
Yamaha	330, 314, 336, 337
Zenith	331

■■■ Operating Video Equipment (continued)

MDP manufacturer code numbers

Manufacturer	Code
Sony	701
Panasonic	704
Pioneer	702

DVD Player manufacturer code numbers

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Tips ☀

- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.
- When you remove the batteries, the code number may revert to the factory setting.

To operate video equipment

- Set the VTR1/2/3/DVD/MDP switch to the position through which you would like to access the video equipment.
- Use the VCR/DVD/MDP buttons indicated in the following tables.

Operating a VCR using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To select a channel	Press the 0 – 9 buttons.
To change channels	Press CH +/-.
To record	Press REC while pressing (lower).
To play	Press ▶.
To stop	Press ■.
To fast forward	Press ▶▶.
To rewind the tape	Press ◀◀.
To pause	Press II. Press again to resume normal playback.
To search the picture forward or backward	Press ▶▶ or ◀◀ during playback. Release to resume normal playback.
To change input mode	Press TV/VTR.

To search the picture forward or backward during playback. Release to resume normal playback.

To search a chapter forward or backward

Operating an MDP using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To play	Press ▶.
To stop	Press ■.
To pause	Press II. Press again to resume normal playback.

To turn On/Off

Press DVD/VTR (POWER). [Green Button]

To play

Press ▶.

To stop

Press ■.

To pause

Press II. Press again to resume normal playback.

To step through different tracks of an audio disc

Press ▶▶ to step forward or ◀◀ to step backward.

To step through different chapters of a video disc

Press CH+ to step forward or CH- to step backward.

To display the Title menu

Press TITLE.

To display the DVD menu

Press DVD MENU.

To select tracks directly

Press 0-9 buttons.

To display the menu (Set up)

53

■■■ Operating a Cable Box or DBS Receiver

Setting the Manufacturer's Code

You can program the supplied remote control to operate a cable box or DBS receiver.

Press CODE SET, DBS/CABLE (FUNCTION), the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony DBS receiver:



Manufacturer code numbers (cable box)

Manufacturer	Code
Gemini	233
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 222, 206, 207, 208, 218
Macom	230, 231, 232
Magnavox	234
Oak	227, 228, 229
Panasonic	219, 220, 221
Philips	236, 237, 238, 239, 240, 241
Pioneer	214, 215
Samsung	235
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for remote control)
General Electric	802
RCA/PROSCAN	802

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

If the remote control doesn't work

- Try repeating the set up procedures using the other codes listed for your equipment.

Tips ☀

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

Troubleshooting

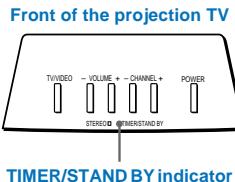
If, after reading the following instructions, you have additional questions related to the use of your Sony projection TV, please call one of the following numbers (English only).

Customers in the continental United States contact the Direct Response Center at:
1-800-222-SONY (7669)

Customers in Canada contact the Customer Relations Center at:
(416) 499-SONY (7669)

The picture turns off and the TIMER/STAND BY indicator on the front panel flashes (self-diagnosis function)

- The projection TV is equipped with a self-diagnosis function. If there is a problem with your projection TV, the TIMER/STAND BY indicator on the front panel will flash repeatedly. Counting the number of flashes helps you inform qualified Sony personnel of the projection TV's condition.



- Count how many times the TIMER/STAND BY indicator flashes in total. It flashes twice at 3 seconds' intervals. If, for example, the indicator flashes twice, stops flashing for 3 seconds, and flashes twice again, that counts as twice.
- Press POWER on the projection TV to turn it off, then inform qualified Sony personnel or the above Direct Response Center of the number of flashes.

No picture (screen not lit), no sound

- Make sure the power cord is plugged in.
- Operate with the buttons on both the projection TV and the remote control.
- Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO 1, 2, 3, 4 or 5.
- Try another channel. *It could be station trouble.*
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)

Remote control does not operate

- Batteries could be weak. Replace the batteries.
- Press TV (FUNCTION) when operating your projection TV.
- Make sure the projection TV's power cord is connected securely to the wall outlet.
- Locate the projection TV at least 3-4 feet away from fluorescent lights.
- Check the S-Link connection. (see "Using the S-Link/CONTROL S function" on page 19)
- Check the polarity of the batteries.

55

Troubleshooting (continued)

Dark, poor or no picture (screen lit), good sound

- Adjust PICTURE in the VIDEO menu. (see "PICTURE" on page 35)
- Adjust BRIGHTNESS in the VIDEO menu. (see "BRIGHTNESS" on page 35)
- Check antenna/cable connections.
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)
- Adjust the convergence again using the AUTO FOCUS button. (see "Adjusting the convergence automatically (AUTO FOCUS" on page 24")

Good picture, no sound

- Press MUTING so that "MUTING" disappears from the screen. (see "MUTING" on page 25)
- Check the MTS setting in the AUDIO menu. (see "MTS" on page 38)
- Make sure SPEAKER is set to ALL ON or L/R OFF in the AUDIO menu. (see "SPEAKER" on page 38)
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)

Cannot receive upper channels (UHF) when using an antenna

- Make sure CABLE is OFF in the CHANNEL SET UP menu. (see "CABLE" on page 44)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see "AUTO PROGRAM" on page 44)

No color

- Adjust the COLOR in the VIDEO menu. (see "COLOR" on page 35)
- Black and white programs cannot be seen in color.
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)

Only snow and noise appear on the screen

- Check the CABLE setting in the CHANNEL SET UP menu. (see "CABLE" on page 44)
- Check the antenna/cable connections.
- Make sure the channel is broadcasting programs.
- Press ANT to change the input mode. (see "ANT" on page 27)

Dotted lines or stripes

- Adjust the antenna.
- Move the projection TV away from noise sources such as cars, neon signs or hair-dryers.

Noisy picture (when DRC is set to HIGH in the VIDEO menu)

- Soften the sharpness using SHARPNESS in the VIDEO menu.

TV is fixed to one channel

- Try turning CHANNEL FIX off. (see "CHANNEL FIX" on page 45)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV memory. (see "AUTO PROGRAM" on page 44)

Double images or ghosts

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO correctly.

56

Cannot receive any channels when using cable TV

- Make sure CABLE is ON in the CHANNEL SET UP menu. (see "CABLE" on page 44)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see "AUTO PROGRAM" on page 44)

Cannot gain enough volume when using a cable box

- Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.

Projection TV malfunctions when using the S-Link function

- Make sure the projection TV's power cord is connected securely to the wall outlet.
- Check the S-Link connection. (see "Using the S-Link/CONTROL S function" on page 19)

INDEX does not display all available channels

- Make sure CABLE is ON in the CHANNEL SET UP menu. (see "CABLE" on page 44)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV memory. (see "AUTO PROGRAM" on page 44)

FAVORITE CHANNEL does not display your choices

- Verify that FAVORITE CHANNEL is set to MANUAL in the CHANNEL SET UP menu. (see "Setting FAVORITE CHANNEL manually" on page 46)

Some video sources do not appear when you press TV/VIDEO

- Ensure that VIDEO LABEL is not set to SKIP. (see "VIDEO LABEL" on page 49)

Recording through SELECT OUT does not function properly when recording in PIP or P&P mode

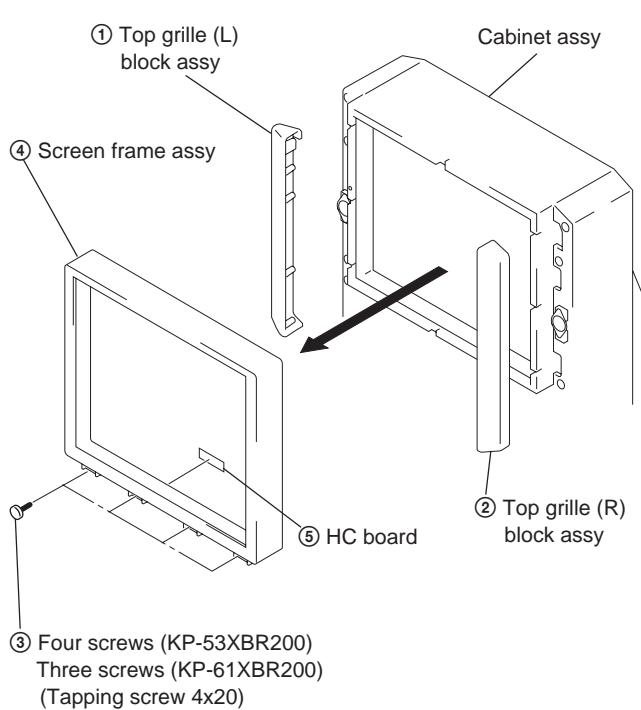
- SELECT OUT will not record both images in PIP or P&P. Only the main picture will be recorded.
- If you are recording the main picture and you switch to the sound of the sub picture using the AUDIO button, the main picture will be recorded with sound from the other program.

Cannot play shooting game

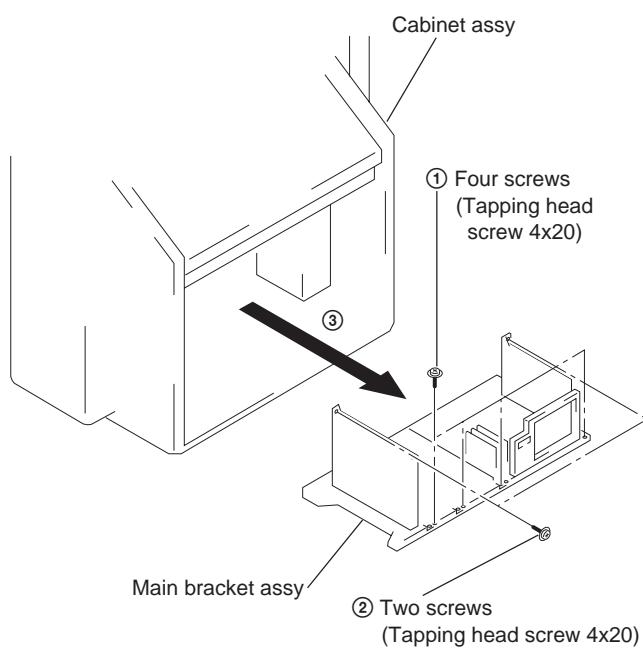
- Some shooting games in which you point a light beam at the TV screen with an electronic gun or rifle cannot be used with this projection TV. For details, see the instruction manual applied with the video game software.

SECTION 2 DISASSEMBLY

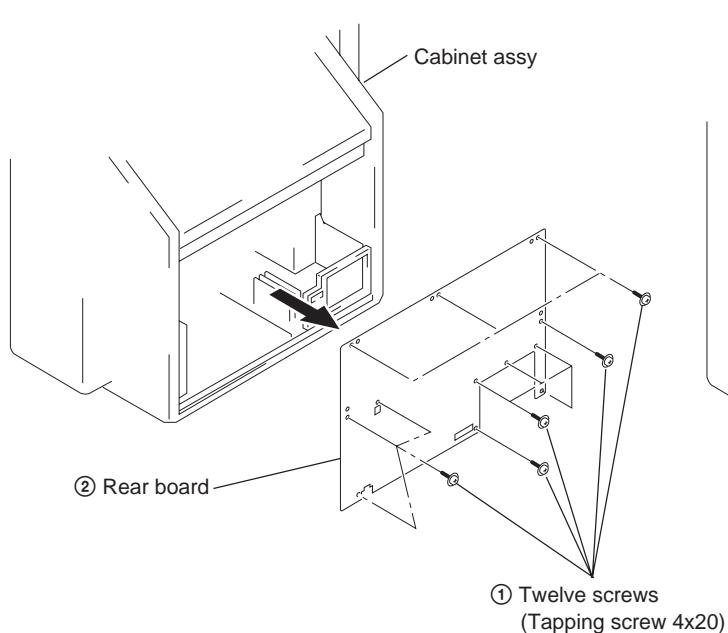
2-1. SCREEN FRAME ASSY AND HC BOARD REMOVAL



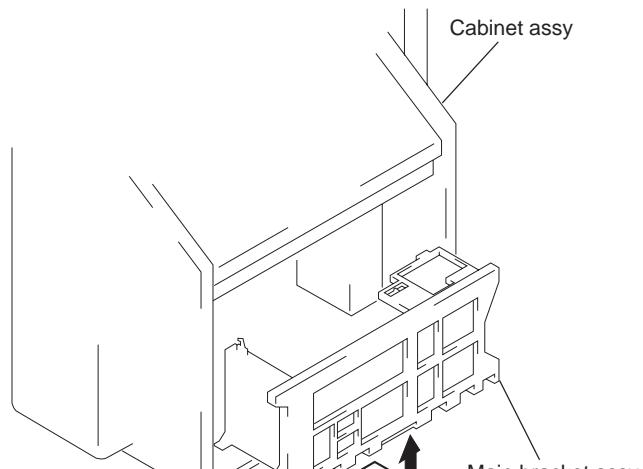
2-3. MAIN BRACKET REMOVAL



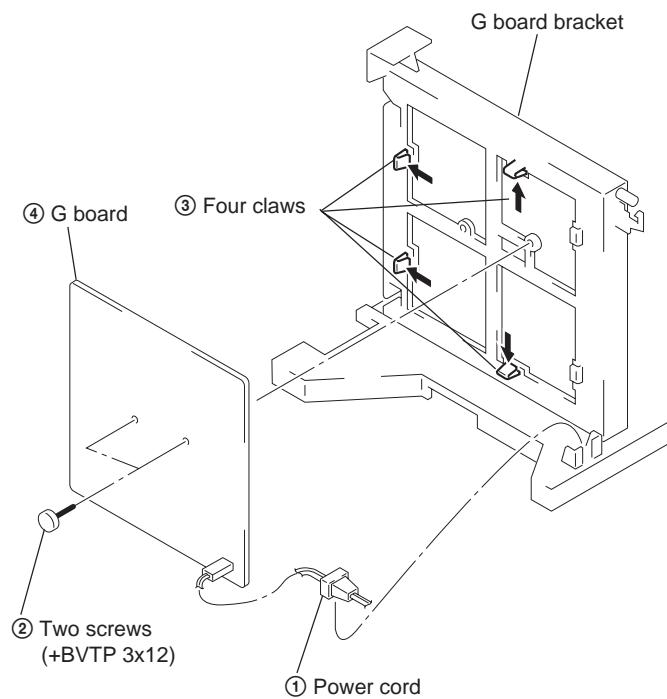
2-2. REAR BOARD REMOVAL



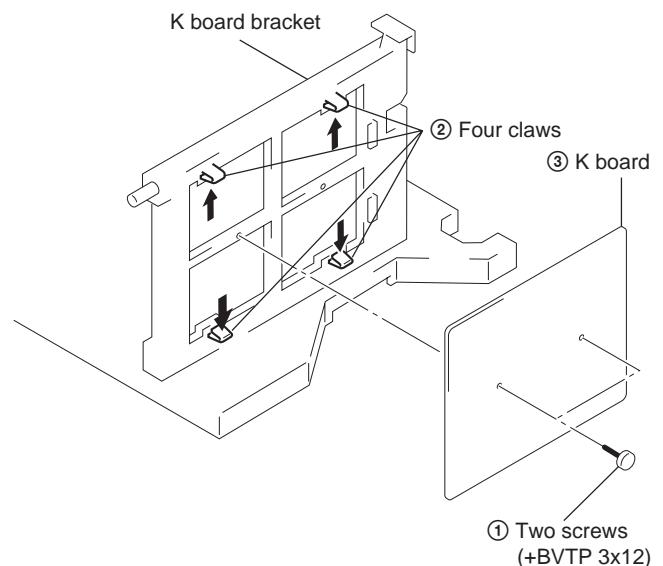
2-4. SERVICE POSITION



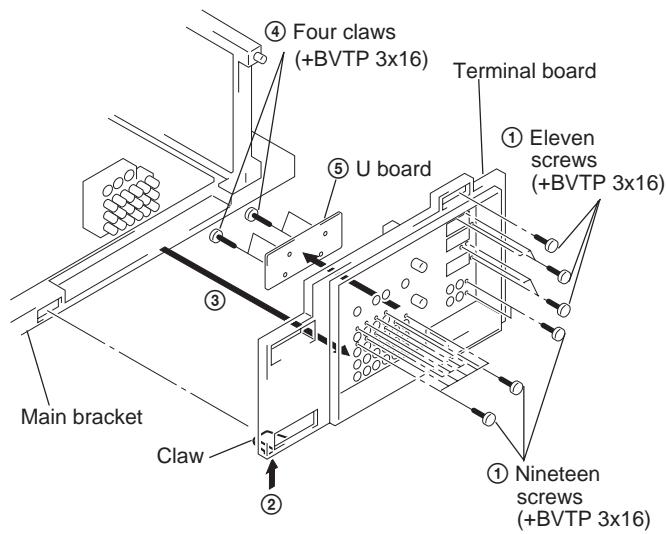
2-5. G BOARD REMOVAL



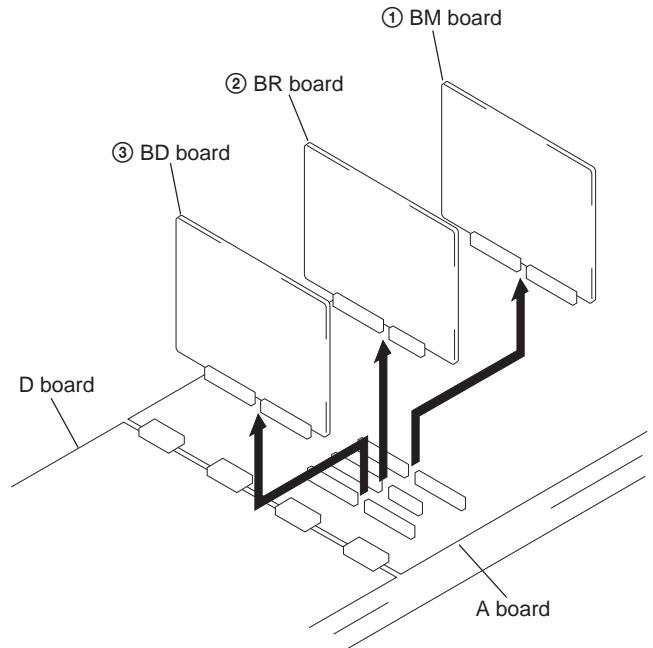
2-7. K BOARD REMOVAL



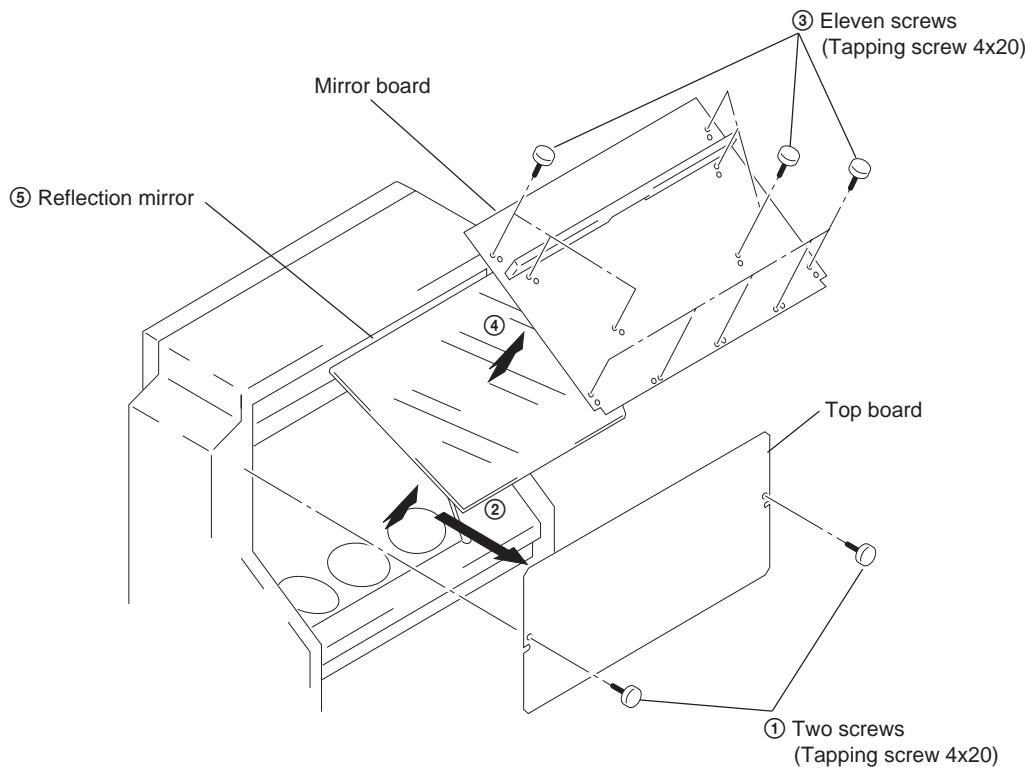
2-6. TERMINAL BOARD AND U BOARD REMOVAL



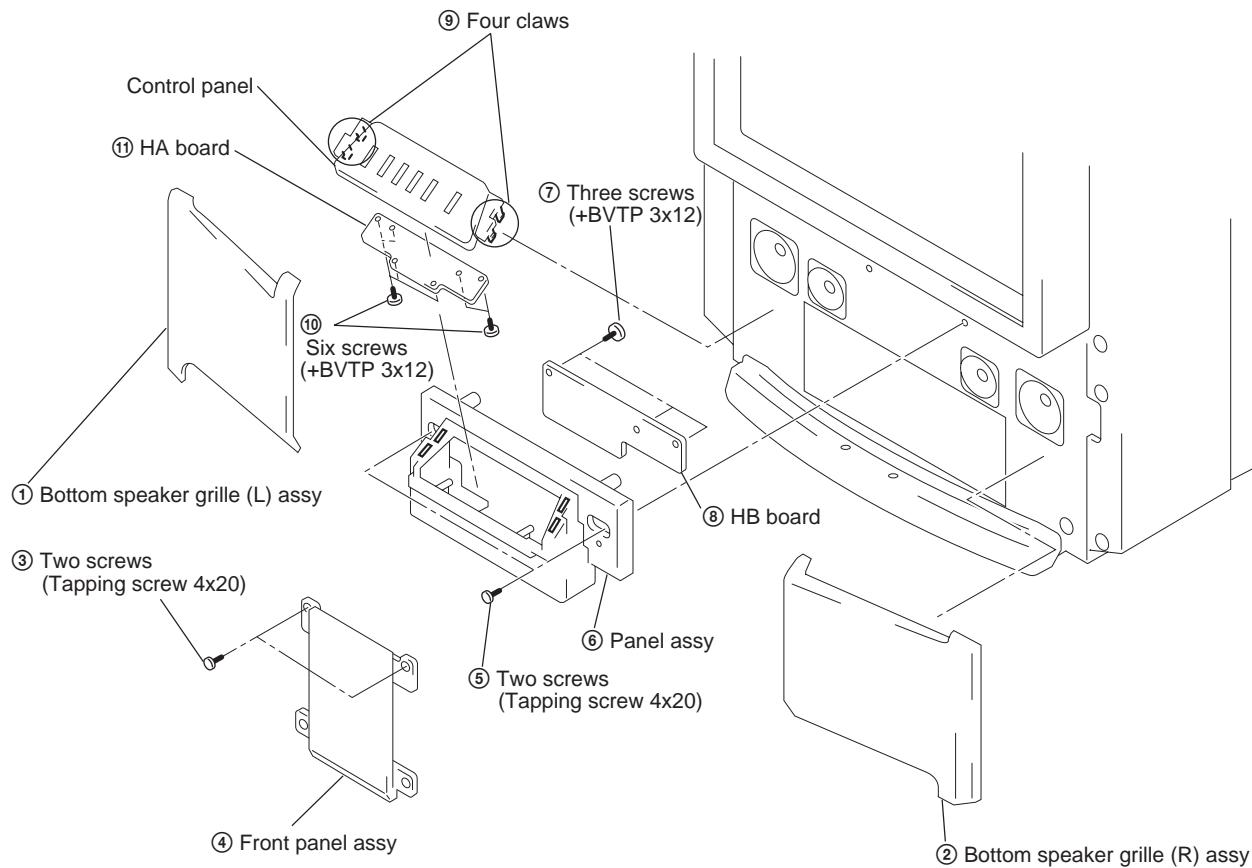
2-8. BM, BR AND BD BOARDS REMOVAL



2-9. REFLECTION MIRROR REMOVAL



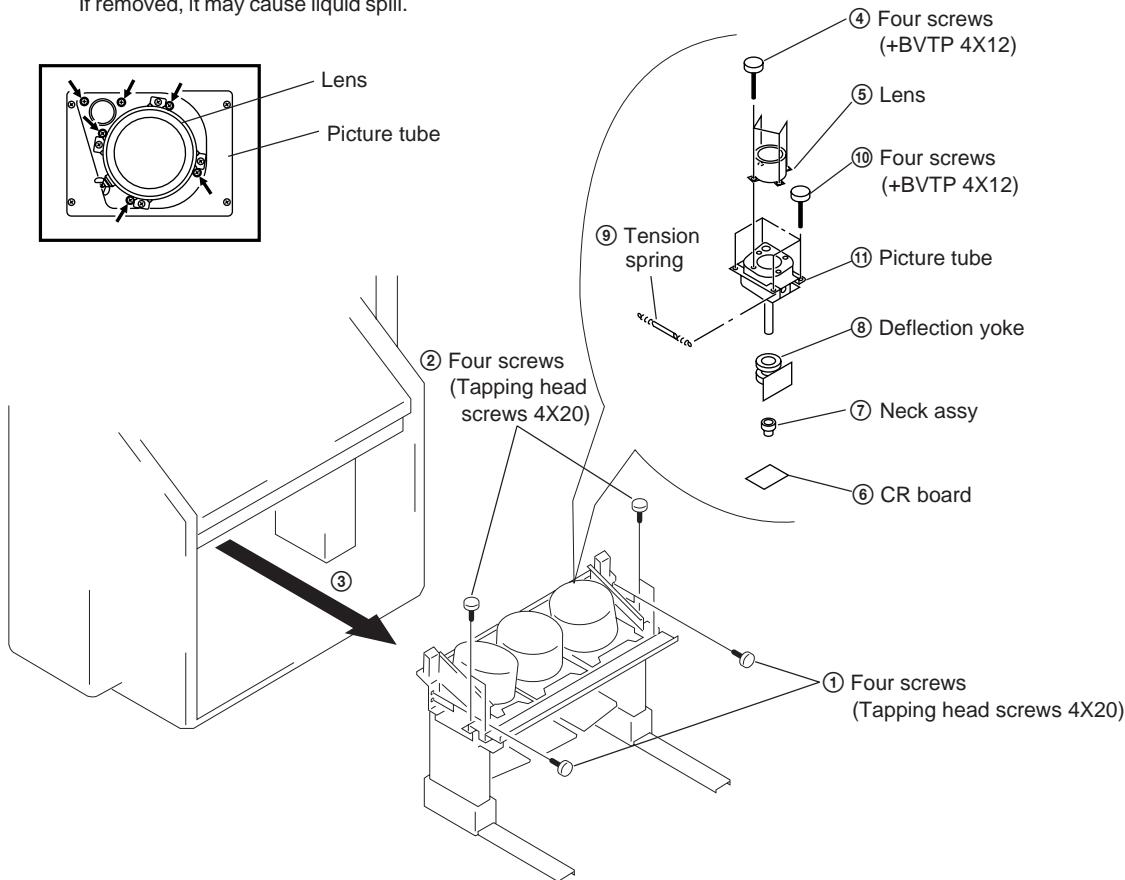
2-10. HA AND HB BOARDS REMOVAL



2-11. PICTURE TUBE REMOVAL

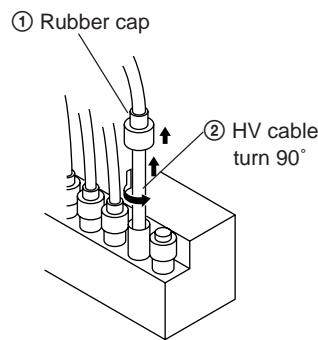
CAUTION: Removing the arrow-marked screws is strictly prohibited.

If removed, it may cause liquid spill.

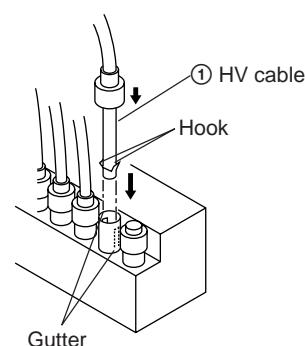


2-12. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Remover



(2) Installation



SECTION 3

SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

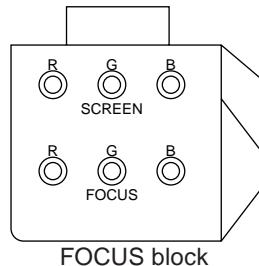


Fig. 3-1

3-2. FOCUS LENS ADJUSTMENT

1. Loose the lens screw.
2. Set in service mode.
3. Use VDSP on the service mode menu to shown only the green color.
4. Press the Commander Menu button and select FEATURES and CONVERGENCE to display the test signal (crosshatch) on the screen.
5. Rotate the green lens and align with the optimal focus point from the test signal.
6. Use RH from the service mode menu to set to green and red.
7. Output the test signal and rotate the red lens to obtain the optimum focus at the point where the red and green spots overlap.
8. Use BH from the service mode menu to set to red and blue.
9. Output the test signal and rotate the blue lens to obtain the optimum focus at the point where the blue and red spots overlap.
10. Tighten the lens screw.

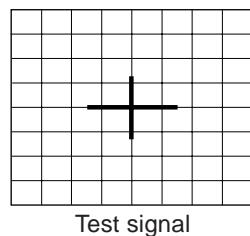


Fig. 3-2

3-3. SCREEN (G2) ADJUSTMENT

1. Select VIDEO mode without signals.
2. Connect an oscilloscope to the TP701(KR), TP731(KG) and TP761(KB) of CR board, CG board and CB board.
3. Adjust R, G and B screen voltage to $175 \pm 2V$ with screen VR on the Focus block.

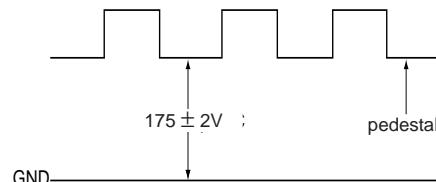


Fig. 3-3

3-4. FOCUS VR ADJUSTMENT

1. Set in service mode.
2. Use VDSP on the service mode menu to shown only the green color.
3. Press the Commander Menu button (convergence) and output the test signal (crosshach).
4. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point.
5. Use RH from the service mode menu to set to green and red.
6. Output the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap.
7. Use BH from the service mode menu to set to red and blue.
8. Output the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap.

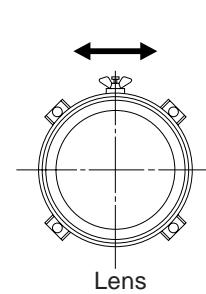


Fig. 3-4

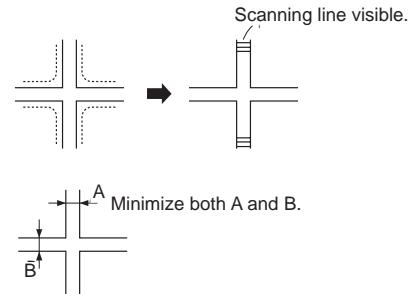


Fig. 3-5

3-5. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Set in service mode.
3. Use VP on the service mode menu to show only the green color.
4. Loosen the deflection yoke set screw and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
6. The tilt of the deflection yoke for red is aligned with RG-RH on the service mode menu, and the tilt on the deflection yoke for blue is aligned with RG-BH on the service menu, is aligned the same as was done for green.

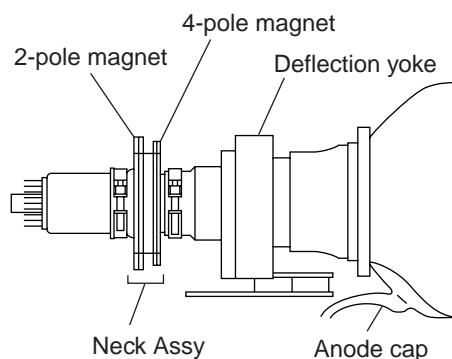


Fig. 3-6

3-6. 2-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Set in service mode.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Turn the green VR on the focus block to the right and set to overfocus to enlarge the spot.
5. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.
6. Align the green focus VR and set for just (precise) focus.
7. Perform the same alignment for red and blue.

Use the center dot

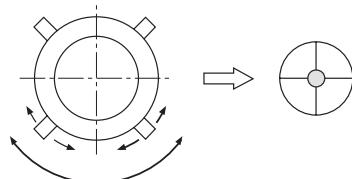


Fig. 3-7

3-7. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Set in service mode.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot.
5. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
6. Perform the same alignment for red and blue.

Use the center dot

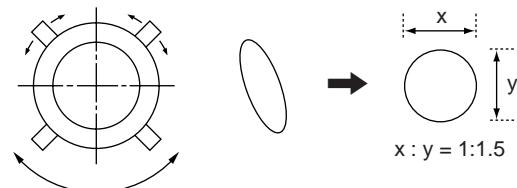


Fig. 3-8

3-8. DEFOCUS ADJUSTMENT (Blue)

1. Receive the crosshatch signal.
2. Adjust the FOCUS knob so that the crosshatch pattern vertical line width is as in the figure on the right.
3. Blue only defocus Adjustment.

[Focus adjustment point]

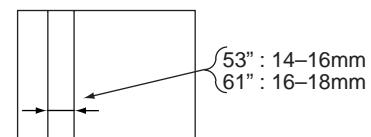


Fig. 3-9

3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y902), all circuit adjustments can be made.

NOTE : Test Equipment Required.

1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

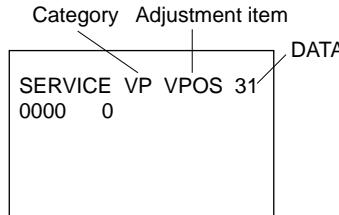
SERVICE MODE PROCEDURE

1. Standby mode. (Power off)
2. **[DISPLAY] → [5] → [VOL (+)] → [TV POWER]**
 (**[+]** → **[5]** → **△** → **[]**)

on the Remote Commander.

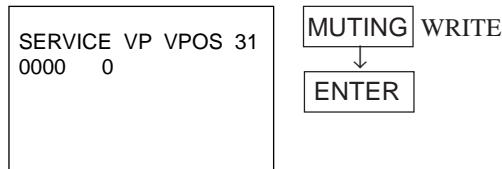
(Press each button within a second.)

SERVICE MODE ADJUSTMENT



3. The CRT displays the item being adjusted.
4. Press **[1]** or **[4]** on the Remote Commander to select the item.
5. Press **[3]** or **[6]** on the Remote Commander to change the data.
6. Press **[2]** or **[5]** on the Remote Commander to select the category.
7. If you want to recover the latest values press **[0]** then **[ENTER]** to read the memory.
8. Press **[MUTING]** then **[ENTER]** to write into memory.

SERVICE MODE ADJUSTMENT



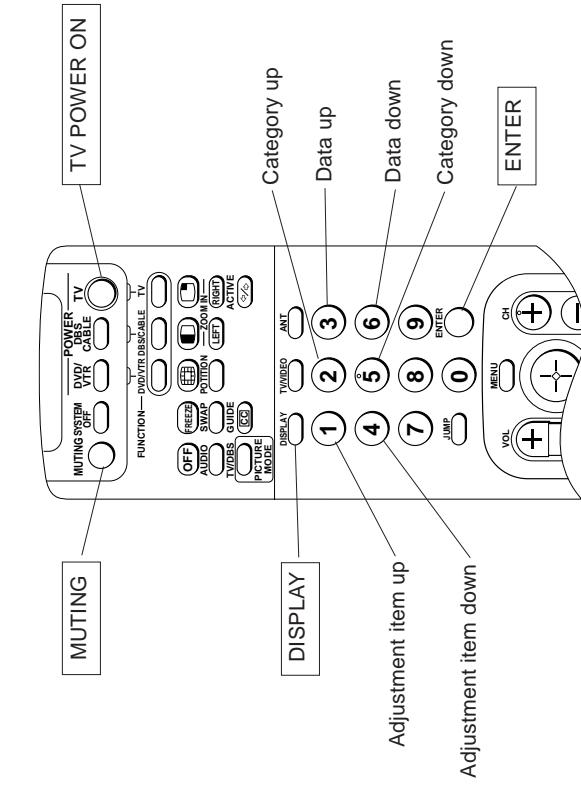
9. Press **[8]** then **[ENTER]** on the Remote Commander to initialize or turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again and confirm they were adjusted.

3. ADJUST BUTTONS AND INDICATOR

4. SERVICE MODE LIST



RM-Y902

VDSP

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
VPOS	00	VPOS	31	0-63	V SHIFT	CXD2018Q
	01	VANG	7	0-15	V ANGLE	
	02	VBOW	7	0-15	V BOW	
	03	VLIN	7	0-15	V LIN	
	04	VSIZ	31	0-63	V SIZE	
	05	VSCO	7	0-15	S CORRECTION	
	06	HPOS	31	0-63	H SHIFT	
	07	HSIZ	31	0-63	H SIZE	
	08	HKEY	7	0-15	TILT	
	09	PAMP	31	0-63	PIN AMP	
	10	UPIN	7	0-15	UPPER CORNER PIN	
	11	LPIN	7	0-15	LOWER CORNER PIN	

MCP1

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCP 1	00	RDRV	31	0-63	R DRIVE	CXA2101AQ
	01	GDRV	31	0-63	G DRIVE	
	02	BDRV	31	0-63	B DRIVE	
	03	RCUT	31	0-63	R CUTOFF	
	04	GCUT	31	0-63	G CUTOFF	
	05	BCUT	31	0-63	B CUTOFF	
	06	SCON	9	0-15	SUB CONTRAST	
	07	SBRT	25	0-63	SUB BRIGHT	
	08	SHUE	7	0-15	SUB HUE	
	09	SCOL	12	0-15	SUB COLOR	
	10	PON	1	"0,1"	PICON	
	11	R ON	1	"0,1"	R ON	
	12	G ON	1	"0,1"	G ON	
	13	B ON	1	"0,1"	B ON	
	14	PABL	15	0-15	PEAKABL LEVEL	
	15	LTHL	2	0-3	LTH LEVEL	
	16	CTL	1	"0,1"	CTL LEVEL	
	17	LIMT	2	0-3	INPUT LEVEL LIMIT	
	18	CB01	7	0-15	CB OFFSET 1	
	19	CR01	7	0-15	CR OFFSET 1	
	20	CB02	7	0-15	CB OFFSET 2	
	21	CR02	7	0-15	CR OFFSET 2	
	22	DCTR	2	0-3	DC TRAN	
	23	DPIC	2	0-3	DPIC	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCP 2 (TV)	00	SSHPI	3	0-3	SUB SHARPNESS(TV)	
	01	SHPF	3	0-3	SHARPNESS FO(TV)	
	02	VMDL	3	0-3	VM DELAY(TV)	
	03	SYS	1	“0,1”	SYSTEM(TV)	
	04	PREO	2	0-3	PRE/OVER RATIO(TV)	
MCP 3 (VIDEO)	00	SSHPI	3	0-3	SUB SHARPNESS(VIDEO)	
	01	SHPF	3	0-3	SHARPNESS FO(VIDEO)	
	02	VMDL	3	0-3	VM DELAY(VIDEO)	
	03	SYS	1	0-3	SYSTEM(VIDEO)	
	04	PREO	2	0-3	PRE/OVER RATIO(VIDEO)	
MCP 4	00	UPIC	63	0-63	USER PICTURE(VIVID)	
			44	0-63	USER PICTURE(STANDARD)	
			40	0-63	USER PICTURE(MOVIE)	
			38	0-63	USER PICTURE(GAME)	
			38	0-63	USER PICTURE(PRO)	
01	UBRT	28	0-63	USER BRIGHTNESS(VIVID)		
		31	0-63	USER BRIGHTNESS(STANDARD)		
		31	0-63	USER BRIGHTNESS(MOVIE)		
		27	0-63	USER BRIGHTNESS(GAME)		
		31	0-63	USER BRIGHTNESS(VIDEO)		
02	UCOL	34	0-63	USER COLOR(VIVID)		
		31	0-63	USER COLOR(STANDARD)		
		31	0-63	USER COLOR(MOVIE)		
		31	0-63	USER COLOR(GAME)		
		31	0-63	USER COLOR(PRO)		
03	USSHPI	50	0-63	USER SHARPNESS(VIVID)		
		50	0-63	USER SHARPNESS(STANDARD)		
		33	0-63	USER SHARPNESS(MOVIE)		
		36	0-63	USER SHARPNESS(GAME)		
		36	0-63	USER SHARPNESS(VIDEO)		
04	UTRI	2	0-3	USER TRINITONE(VIVID)		
		1	0-3	USER TRINITONE(STANDARD)		
		0	0-3	USER TRINITONE(MOVIE)		
		2	0-3	USER TRINITONE(GAME)		
		1	0-3	USER TRINITONE(VIDEO)		
05	UDRC	2	0-3	USER DRC MODE(VIVID)		
		1	0-3	USER DRC MODE(STANDARD)		
		0	0-3	USER DRC MODE(MOVIE)		
		2	0-3	USER DRC MODE(GAME)		
			2	0-3	USER DRC MODE(VIDEO)	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCD 07	06	UDPI	1	“0,1”	USER DYNAMIC PICTURE(VIVID)	
			1	“0,1”	USER DYNAMIC PICTURE(STANDARD)	
			0	“0,1”	USER DYNAMIC PICTURE(MOVIE)	
			0	“0,1”	USER DYNAMIC PICTURE(GAME)	
			1	“0,1”	USER DYNAMIC PICTURE(VIDEO)	
08	UVML	3	0-3	USER VM LEVEL(VIVID)		
			2	0-3	USER VM LEVEL(STANDARD)	
			1	0-3	USER VM LEVEL(MOVIE)	
			1	0-3	USER VM LEVEL(GAME)	
			3	0-3	USER VM LEVEL(VIDEO)	
09	UGAM	3	0-15	USER GAMMA(VIVID)		
			3	0-15	USER GAMMA(STANDARD)	
			3	0-15	USER GAMMA(MOVIE)	
			3	0-15	USER GAMMA(GAME)	
			3	0-15	USER GAMMA(VIDEO)	
09	USCN	0	0-7	USER SUB CONTRAST OFFSET(VIVID)		
			0	0-7	USER SUB CONTRAST OFFSET(STANDARD)	
			0	0-7	USER SUB CONTRAST OFFSET(MOVIE)	
			0	0-7	USER SUB CONTRAST OFFSET(GAME)	
			0	0-7	USER SUB CONTRAST OFFSET(VIDEO)	

MCD

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCD 1 (DRC-TV)	00	SCON	7	0-15	SUB CONTRAST(DRC-TV)	
	01	SHUE	7	0-15	SUB HUE(DRC-TV)	
	02	SCOL	7	0-15	SUB COLOR(DRC-TV)	
	00	SCON	7	0-15	SUB CONTRAST(P&P-TV)	
	01	SHUE	7	0-15	SUB HUE(P&P-TV)	
MCD 2 (P&P-TV)	02	SCOL	7	0-15	SUB COLOR(P&P-TV)	
	00	SCON	7	0-15	SUB CONTRAST(DRC-VIDEO)	
	01	SHUE	7	0-15	SUB HUE(DRC-VIDEO)	
	02	SCOL	7	0-15	SUB COLOR(DRC-VIDEO)	
	00	SCON	7	0-15	SUB CONTRAST(P&P-VIDEO)	
MCD 3 (DRC-VIDEO)	01	SHUE	7	0-15	SUB HUE(P&P-VIDEO)	
	02	SCOL	7	0-15	SUB COLOR(P&P-VIDEO)	
	00	SCON	7	0-15	SUB CONTRAST(P&P-VIDEO)	
	01	SHUE	7	0-15	SUB HUE(P&P-VIDEO)	
	02	SCOL	7	0-15	SUB COLOR(P&P-VIDEO)	
MCD 4 (P&P-VIDEO)	00	SCON	7	0-15	SUB CONTRAST(DRC-VIDEO)	
	01	SHUE	7	0-15	SUB HUE(DRC-VIDEO)	
	02	SCOL	7	0-15	SUB COLOR(DRC-VIDEO)	
	00	SCON	7	0-15	SUB CONTRAST(P&P-VIDEO)	
	01	SHUE	7	0-15	SUB HUE(P&P-VIDEO)	
MCD 5 (YDRIVE)	00	MYDR	3	0-31	YDRIVE	
	01	Y2DR	31	0-31	Y2 DRIVE	
	02	U2DR	15	0-31	U2 DRIVE	
	03	V2DR	15	0-31	V2 DRIVE	
	04	MUPE	7	0-15	U PED	
CXA2019AQ	05	MVPE	7	0-15	V PED	
	06	U2PE	7	0-15	U2 PED	
	07	V2PE	7	0-15	V2 PED	
	08	DPIC	1	“0,1”	D PIC	
	09	DCTR	0	0-7	DC TRAN	

VDS

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
SCD 1 (TV)	00	SCON	7	0-15	SUB CONTRAST(TV)	CXA2019AQ
	01	SHUE	7	0-15	SUB HUE(TV)	
	02	SCOL	7	0-15	SUB COLOR(TV)	
SCD 2 (VIDEO)	00	SCON	7	0-15	SUB CONTRAST(VIDEO)	
	01	SHUE	7	0-15	SUB HUE(VIDEO)	
	02	SCOL	7	0-15	SUB COLOR(VIDEO)	
SCD 3	00	MYDR	3	0-31	YDRIVE	
	01	Y2DR	31	0-31	Y2 DRIVE	
	02	U2DR	15	0-31	U2 DRIVE	
	03	V2DR	15	0-31	V2 DRIVE	
	04	MUPE	7	0-15	U PED	
	05	MVPE	7	0-15	V PED	
	06	U2PE	7	0-15	U2 PED	
	07	V2PE	7	0-15	V2 PED	
	08	DPIC	1	“0,1”	D PIC	
09	DCTR	0	0-7	DC TRAN		

3DCM

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
3DCM 1 (YCS)	00	NRMD	0	0~3	NRMD(YCS MODE)	UPD64081
	01	DYCOR	2	“0,1”	DYCOR(YCS MODE)	
	02	DYGA	11	0~15	DYGAIN(YCS MODE)	
	03	DCCO	1	“0,1”	DCCOR(YCS MODE)	
	04	DCGA	12	0~15	DCGAIN(YCS MODE)	
	05	SELD	1	“0,1”	SELDD(YCS MODE)	
3DCM 2 (YCNR)	06	D2GA	4	0~7	D2GAIN(YCNR MODE)	
	00	NRMD	3	0~3	NRMD(YCNR MODE)	
	01	DYCOR	2	“0,1”	DYCOR(YCNR MODE)	
	02	DYGA	11	0~15	DYGAIN(YCNR MODE)	
	03	DCCO	1	“0,1”	DCCOR(YCNR MODE)	
	04	DCGA	12	0~15	DCGAIN(YCNR MODE)	
3DCM 3 (TV)	05	SELD	1	“0,1”	SELDD(YCNR MODE)	
	06	D2GA	4	0~7	D2GAIN(YCS MODE)	
	00	WSC	3	0~3	WSC(TV)	
	01	VTRH	1	0~3	VTRH(TV)	
	02	VTTR	1	0~3	VTTR(TV)	
	03	LDSR	3	0~3	LDSR(TV)	
3DCM 4 (YCS)	04	YPFT	3	0~3	YPFT(TV,NR OFF)	
	05	YPFG	12	0~15	YPFG(TV,NR OFF)	
	06	YPFC	0	“0,1”	YPFT CORING(TV,NR OFF)	

50

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
OSD	00	FREQ	95	0-255	OSD FREQ	MB9091 & OSD U-COM
	01	HPOS	30	0-255	H POSITION	
	02	VPOS	30	0-255	V POSITION	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCCD	00	CRIL	2	0-15	CRI COUNT LOW	MAIN U-COM
	01	CFLD	5	0-15	CAPTION FIXED-FIELD COUNT	
	02	CDDI	3	0-7	CCD INT	
	03	CRIP	4	0-7	CRI & PARITY	
	04	CRIT	1	0-3	CRI TIME CONSTANT(MASK=1,OTP=2)	
	05	CSBI	3	0-3	SYNC SLICE BIAS 1	

SCD

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
3DCM 4 (VIDEO)	00	WSC	3	0-3	WSC(VIDEO)	
	01	VTRH	1	0-3	VTRH(VIDEO)	
	02	VTRR	1	0-3	VTRR(VIDEO)	
	03	LDSR	1	0-3	LDSR(VIDEO)	
	04	YPFT	3	0-3	YPFT(VIDEO;NR OFF)	
	05	YPFG	12	0-15	YPFG(VIDEO;NR OFF)	
3DCM 5	06	YPFC	0	"0.1"	YPFT CORING(VIDEO;NR OFF)	
	00	MSS	0	0-3	MSS	
	01	YNKI	2	0-3	YNRK & YNRIV	
	02	YNRL	1	0-3	YNRLIM	
	03	CNKI	2	0-3	CNRK & CNRINV	
	04	CNRL	1	0-3	CNRLIM	
	05	YPFT	3	0-3	YPFT(NR ON)	
	06	YPFG	12	0-15	YPFG(NR ON)	
	07	YHCO	1	0-3	YHCOR(NR ON)	
	08	VIPS	2	0-3	V1PS	
	09	VEGS	1	0-3	VEGS	
	10	CCSN	0	"0.1"	CC3N	
	11	HDP	4	0-7	HDP	
	12	CDL	3	0-7	CDL	
	13	HSSL	12	0-15	HSSL	
	14	VSSL	3	0-15	VSSL	
	15	HPLF	1	"0.1"	HPLLFS	
	16	BPLF	1	"0.1"	BPLLFS	
	17	FSCF	0	"0.1"	FSCFG	
	18	EXAD	1	"0.1"	ADIN	
	19	WSLT	255	0-255	WSL THRESHOLD	

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	06	CSB2	4	0-7	SYNC SLICE BIAS 2	
	07	CREP	142	0-255	CRI SIGNAL END POSITION	
	08	CDSD	8	0-31	DATA START DELAY	
	09	CCDS	9	0-31	CAPTION DATA THRESHOLD	
	10	CHMK	42	0-63	P8 HMASK	
	11	CHSY	136	0-255	P8 HSYNC	
	12	CCDH	27	0-63	CCD H POSITION	

OP

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
APLR	00	SVOL	0	0-15	SUB VOLUME	
	01	ATTL	0	0-15	ATT LCH	
	02	ATTR	0	0-15	ATT RCH	
	03	SBAS	7	0-15	SUB BASS	
	04	STRE	7	0-15	SUB TREBLE	

APLR

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	00	TDA7321				

PJED

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	00	FDIS	0	0-1	FINE ADJUST DISPLAY ON(ON=1, OFF=0)	
	01	OSDH	32	0-255	PIED OSD H POSITION	
	02	OSDV	55	0-255	PIED OSD V POSITION	
	03	FVST	82	0-255	FINE V START LINE	
	04	VIST	0	0-255	V1 START	
	05	V1CU	31	0-255	V1 COUNT UP	
	06	COHP	0	0-255	COARSE H PHASE	
	07	FIHP	180	0-255	FINE H PHASE	
	08	TPHP	80	0-255	TEST PATTERN H PHASE	
	09	DFHP	219	0-255	DF H PHASE	
	10	DFHG	44	-128+127	DF H GAIN	
	11	DFVG	35	-128+127	DF V GAIN	
	12	PWM1	0	0-255	PWM1	
	13	PWM2	34	0-255	PWM2	
	14	HBLD	184	0-255	HBLKOUT H DELAY	
	15	HBLW	23	0-63	HBLKOUT PULSE WIDTH	
	16	COGV	0	-127+127	GV CENTER OFFSET OF AUTO REGI	
	17	CORV	0	-127+127	RV CENTER OFFSET OF AUTO REGI	
	18	COBV	0	-127+127	BV CENTER OFFSET OF AUTO REGI	
	19	COGH	0	-127+127	GH CENTER OFFSET OF AUTO REGI	
	20	CORH	0	-127+127	RH CENTER OFFSET OF AUTO REGI	
	21	COBH	0	-127+127	BH CENTER OFFSET OF AUTO REGI	
	22	SORV	0	-127+127	RV SKEW OFFSET OF AUTO REGI	
	23	SOBV	0	-127+127	BV SKEW OFFSET OF AUTO REGI	
	24	SOGH	0	-127+127	GH SKEW OFFSET OF AUTO REGI	
	25	SORH	0	-127+127	RH SKEW OFFSET OF AUTO REGI	

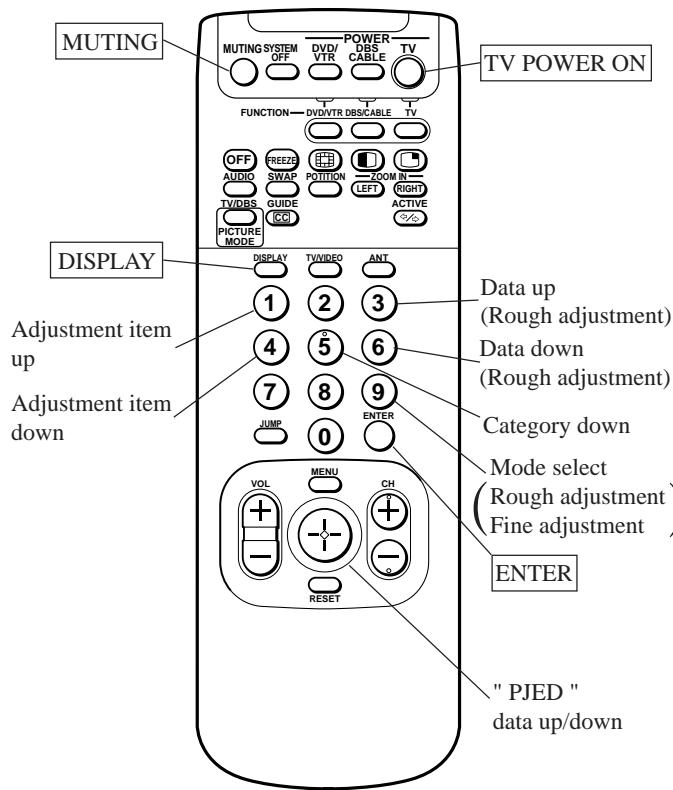
MID

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MID	00	DLYC	3	0-7	DELAY(Y OUTPUT DELAY)	CXD2079Q & MID U-COM
	01	YSDY	1	0-7	YSDY(YS DELAY)	
	02	VJTC	0	0-3	VJITTC(V JITTER MODE)	
	03	HPHA	42	0-255	HPHASA(ACH H PHASE)	
	04	VPHA	11	0-255	VPHASA(ACH V PHASE)	
	05	DLYA	4	0-7	DELAYA(ACH Y DELAY)	
	06	HPOA	89	0-255	HPOSIA(ACH H POSITION;NOT USE)	
	07	VPOA	63	0-255	VPOSIA(ACH V POSITION;NOT USE)	
	08	HPHB	42	0-255	HPHASB(BCH H PHASE)	
	09	VPHB	11	0-255	VPHAHB(BCH V PHASE)	
	10	DLYB	4	0-7	DELAYB(BCH Y DELAY)	
	11	HPOB	4	0-15	HPOSIB(BCH H POSITION;PIP ONLY)	
	12	VPOB	6	0-15	VPOSIB(BCH V POSITION;PIP ONLY)	
	13	BPDY	0	0-15	BPDELAY(BP DELAY)	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	26	SOBH CENT	0	-127~+127	BH SKEW OFFSET OF AUTO REGI	
	27		0	-512~+511	COARSE RH CENTER ADJUST	
			0	-512~+511	COARSE GH CENTER ADJUST	
			0	-512~+511	COARSE BH CENTER ADJUST	
			0	-512~+511	COARSE RV CENTER ADJUST	
			0	-512~+511	COARSE GV CENTER ADJUST	
			0	-512~+511	COARSE BV CENTER ADJUST	
	28	SKEW	0	-512~+511	COARSE RH SKEW ADJUST	
			0	-512~+511	COARSE BH SKEW ADJUST	
			0	-512~+511	COARSE GH SKEW ADJUST	
			0	-512~+511	COARSE RV SKEW ADJUST	
			0	-512~+511	COARSE BV SKEW ADJUST	
	29	SIZE	0	-512~+511	COARSE RH SIZE ADJUST	
			0	-512~+511	COARSE GH SIZE ADJUST	
			0	-512~+511	COARSE BH SIZE ADJUST	
			0	-512~+511	COARSE RV SIZE ADJUST	
			0	-512~+511	COARSE GV SIZE ADJUST	
			0	-512~+511	COARSE BV SIZE ADJUST	
			0	-512~+511	COARSE RH LIN ADJUST	
	30	LIN	0	-512~+511	COARSE BH LIN ADJUST	
			0	-512~+511	COARSE RV KEY ADJUST	
			0	-512~+511	COARSE BV KEY ADJUST	
			0	-512~+511	COARSE RV PIN ADJUST	
	31	KEY	0	-512~+511	COARSE GV PIN ADJUST	
	32	PIN	0	-512~+511	COARSE BV PIN ADJUST	
			0	-512~+511	COARSE BV PIN ADJUST	

3-10. REGISTRATION ADJUSTMENT

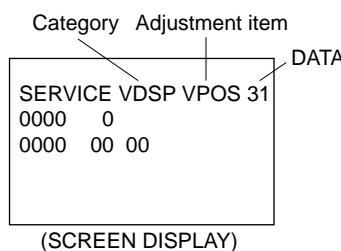
- ADJUST BUTTONS AND INDICATOR



[Setup for Adjustment]

- Current flow in circuit should be stable before attempting adjustment. (So wait about 5 minutes after turning on the TV power switch.)
- Use caution since this adjustment affects the [Green (Red, Blue,) Registration] when performed as a rough adjustment.

1. Generate a crosshatch signal and display it on the TV screen.
2. Place a cap over the red and blue picture tube guns and set to green (color).
3. Place in test mode.
 - 3-1. Turning on while in standby.
(with TV power switch off)
Press the remote control keys in the following order :
DISPLAY → **5** → **VOL+** → **TV POWER**
 - 3-2. Turning on (with TV power switch is ON)
Open the top cover of the remote control.
Press the remote control keys in the following order :
EJECT → **REWIND** → **PLAY**



4. Shift to Sub-adjustment mode with key **5** on the remote control.

PJED	000	000
FDIS		

5. Select “OSDH” “OSDV” with the **1** and **4** keys on the remote control. Use the joystick key to move “OSDH” horizontally and “OSDV” vertically, set the OSD in an easy to see position.
6. Select “GRN CEN” with the **1** and **4** keys on the remote control and check that the adjustment data is now “000” both vertically and horizontally.

GRN	(H) 000	(V) 000
CENT		

* You can now display the crosshatch pattern on the screen by using the **6** key on the remote control.

7. Shift to Main Test mode with the **2** key on the remote control.
8. Select “VPOS” “HPOS” with the **1** and **4** keys on the remote control. Align the centers of “VPOS” and “HPOS” with the **3** and **6** keys.
9. Shift to Subtest mode with the **5** key on the remote control.

SUB DEFLECTION ADJUSTMENT ITEM

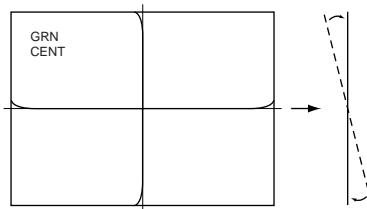
Adjustment O : Yes – : No

Display	Adjustment item	Adjustment type					
		GH	GV	RH	RV	BH	BV
CENT	CENT	O	O	O	O	O	O
SKEW	SKEW	O	–	O	O	O	O
SIZE	SIZE	O	O	O	O	O	O
LIN	LIN	–	–	O	–	O	–
KEY	KEY	–	–	–	O	–	O
PIN	PIN	–	O	–	O	–	O

[GREEN REGISTRATION ADJUSTMENT]

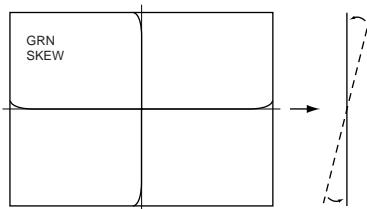
<GREEN CENTER ADJUSTMENT>

1. Select "GRN CENT" with the [1] and [4] keys on the remote control.
2. Use the joystick key on the remote control and adjust the vertical and horizontal section not possible in Main mode.
(See item 5 of "Setup for adjustment".)



<GREEN SKEW>

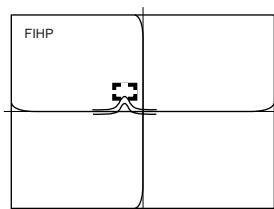
1. Select "GRN SKEW" with the [1] and [4] keys on the remote control.
2. Adjust with the joystick keys on the remote control so that there is no slope on the vertical and horizontal center line.



<H-PHASE ADJUSTMENT(COHP, FIHP, TPHP)>

1. Select "COHP" with the [1] and [4] keys on the remote control and check that the data is "0".
2. Select "FIHP" with the [1] and [4] keys on the remote control.
3. Shift to Fine Adjustment mode with the [9] key on the remote control.
4. Move the joystick key to increase the peak vertically in the + direction to form the peak as shown below.

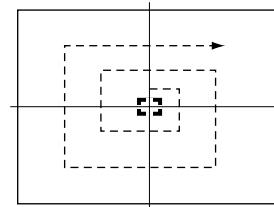
* The speed at which changes in the peak occurs



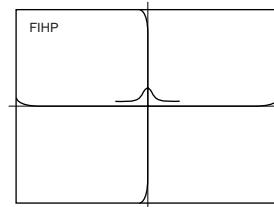
is slow so increasing the data for the peak will make it easier to see.

• Marker Movement

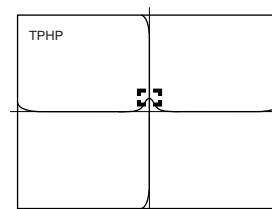
(A vortex shape as shown below appears when the [1] key on the remote control is held down and when the vortex reaches the upper right it again returns to the center of the screen. Reverse this movement with the [4] key on the remote control.)



5. Shift to Rough Adjustment mode with the [9] key on the remote control.
6. Change the FIHP value with the joystick key so that the tip of the peak is in the center of the screen as shown below.

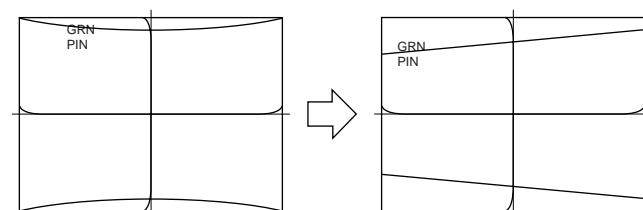


7. Select "TPHP" with the [1] and [4] keys on the remote control. The marker will now appear so use the [1] and [4] keys on the remote control to adjust to position the center of the marker in the screen center.
8. Shift to Fine Adjustment mode with the [9] key on the remote control and return the peak section data.



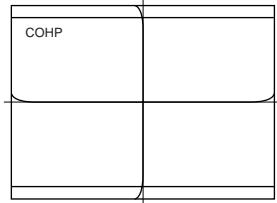
<GREEN PINCUSHION>

1. Shift to Rough Adjustment mode with the [9] key on the remote control.
2. Select "GRN PIN" with the [1] and [4] keys on the remote control.
3. Adjust with the joystick keys on the remote control so that the upper and lower horizontal lines changes from a crooked to nearly a straight shape. (A slope on the line is okay.)



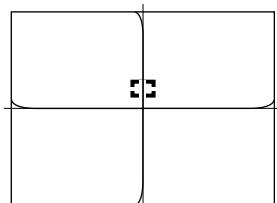
<COHP ADJUSTMENT>

1. Select “COHP” with the **[1]** and **[4]** keys on the remote control.
2. Adjust with the joystick keys on the remote control so that the slope of upper and lower horizontal lines is minimized (see below).



<Final Adjustment>

1. Shift to Fine Adjustment mode with the **[9]** key on the remote control.
2. Use the joystick keys and straighten the vertical and horizontal lines passing through the center spot of the screen. At this time also adjust the linearity especially in the horizontal direction of the middle section.



(Effective Adjustment Method)

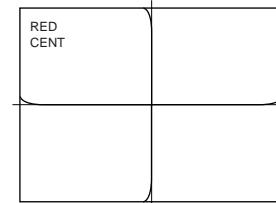
- This method allows moving to the target position by using the joystick key on the remote control. Shift as needed by pressing once at a time on the joystick key and use the adjust toggle to change the joystick key mode. Check if the mode has changed by viewing the marker color. (Note that this cannot be checked with only 1 color on the screen.)
- The marker color changes from white to green (red) each time the joystick is pressed. Set to white (color) when shifting the marker.

3. Adjust the screen marker from the center to above the vortex with the **[1]** key on the remote control. At this point be careful not to change the vertical and horizontal lines that were aligned in the previous adjustment.
(Use the joystick key mentioned above for the point you want to align.)

[RED REGISTRATION ADJUSTMENT]

<CENTER ADJUSTMENT>

1. Shift to Rough Adjustment mode with the **[9]** key on the remote control.
2. Select “GRN CENT” with the **[1]** key on the remote control.
3. Switch to RED by specifying that color with the **key** on the remote control and align with the joystick to match with the center point of the screen aligned previously in green.



<SKEW ADJUSTMENT>

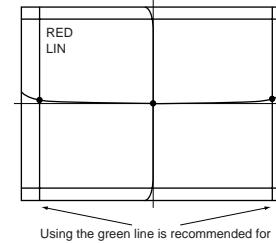
1. Select “RED SKEW” with the **[1]** key on the remote control while set in Rough Adjustment mode. Adjust the slope of the vertical and horizontal lines with the **[3]** and **[6]** keys.

<LINEARITY ADJUSTMENT>

1. In rough adjustment mode, select “RED SIZE” and “RED LINE” with the **[1]** and **[4]** keys on the remote control and adjusting while alternately tracking each.

• **H-LIN**

Establish points at both ends of the screen as shown below. Adjust these 2 points and the center point with the **[3]** and **[6]** keys so that they match with green point. (In this case, adjust by using the horizontal line in the center.)



Using the green line is recommended for a crosshatch pattern.

* Usually, the middle section deviates when both ends are aligned but when the peripheries of both ends are aligned, an extra margin of movement is obtained making for an effective adjustment.

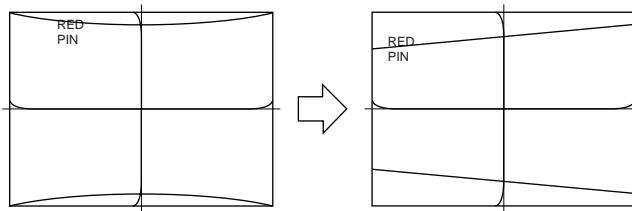
• **V-LIN**

Select “RED SIZE” and adjust using the joystick keys.

* V-LIN is adjusted only with “SIZE”.

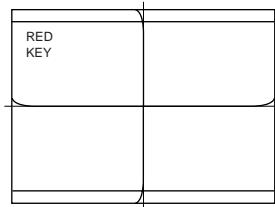
<PINCUSHION ADJUSTMENT>

- Select "RED" with the [1] and [4] keys on the remote control while in rough adjustment mode.
- Use the joystick and adjust so that the upper and lower horizontal lines change from a crooked or bent shape to straight lines. Somewhat of a slope is allowed at this time as shown below.



<KEY ADJUSTMENT>

- Select "RED" with the [1] and [4] keys on the remote control and adjust any slope or inclination remaining from the previous step with the joystick so it becomes horizontal.



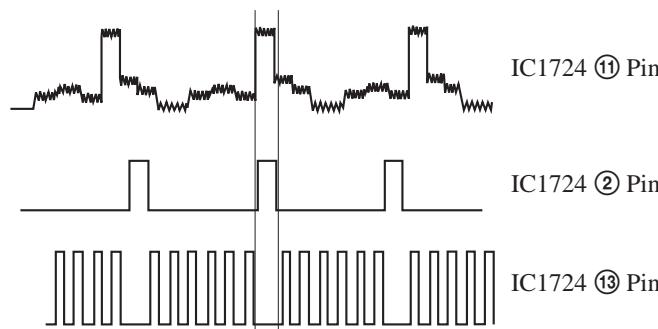
<Final Adjustment>

Shift to Fine adjustment mode with the [9] key on the remote control and just as when aligning with Green, first adjust the horizontal and vertical lines passing through the center point and then align with green after setting in vortex mode.

[BLUE REGISTRATION ADJUSTMENT]

<BLUE ADJUSTMENT>

- The offset (or compensation) pulse for the H (horizontal retrace period was removed in order to reduce distortion in the corners of the screen. So adjust for this as described next before adjusting Blue the same as was just done for Red.



Select "HBLW" with the [1] and [4] keys on the remote control and adjust so that the pulse width of pin ② of IC1724 misses about one pulse of pin ⑬ of IC1724 as shown above.

Next, while monitoring the waveform on pin ⑪ of IC1724, change the value of "HBLW" from 0 to 255 and find the portion where the waveform peak on pin ⑪ of IC1724 is at a maximum.

Then adjust the "HBLD" value so that the waveform on pin ⑬ of IC1724 is removed at that (maximum) portion.

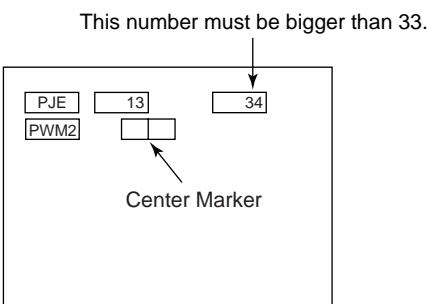
- A fixed value is normally provided for this adjustment so aligning with this fixed value will allow making the above adjustment.
HBLW : 23
HBLD : 184
- From hereon, make the Blue adjustment just as was previously done for Red.

<Final Check>

- After each of the Green, Red and Blue adjustments are complete, check that all the colors are displayed on the screen.
- If the colors are off, set Fine Adjustment mode with the [9] key on the remote control and adjust the point that is deviating.
- Store the new adjustment (offset) value on the remote control by pressing [MUTING] and [ENTER].
- Press the AUTO FOCUS button on the front panel.
(The Offset value is now automatically stored.)
- Now cancel the test mode and return to the normal screen. Press the AUTO FOCUS button and check that no error message appears.
If an error message appears, once again select test mode and recheck.

3-11. AUTO REGISTRATION OFF SET ADJUSTMENT

- Receive the monoscope signal.
- Enter "PJE SERVICE MODE".
- Confirm "OSDH" is "32". If necessary, adjust "OSDH" to obtain "32".
- Adjust "PWM2" to obtain that Center Marker is on the center line of "MONOSCOPE".
- Receive the crosshatch signal.
- Confirm that registration level is within spec.
Press "AUTO FOCUS" button.
- After finishing, quit service mode and confirm registration level is back to original condition.



3-12. AUTO REGISTRATION ERROR CODE LIST (PJED3.07)

[ERROR CODE LIST]

ERROR CODE	DISCRIPTION	NOTE
00	No Error	
10	Sensor Output Level Low	* Check wiring, beam position, sensor.
20	Sensor Output Level High	* Check OP-amp circuit.
30	Adjustment Loop Counter Overflow	0 : "CENT V" 1 : "CENT H" 2 : "SKEW V" 3 : "SKEW H"
40	Regi Data Overflow	Same as Loop Counter Overflow
50	Regi Data Overflow	Same as Loop Counter Overflow
60	Offset Overflow	Same as Loop Counter Overflow * Check beam position. If need, adjust "PWM2" for H error, "V CENT (main) for V error. * "PWM2" is usually 34 or 36.
70	Offset Overdrow	Same as Counter Overflow * Check beam position. If need, adjust "PWM2" for H error, "V CENT (main) for V error.
80	Green "V SKEW" too tilt	* Adjust Green beam righ or left sensopr, or Green DY tilt.

* 60, 70 or 80 appears only in Service Mode.

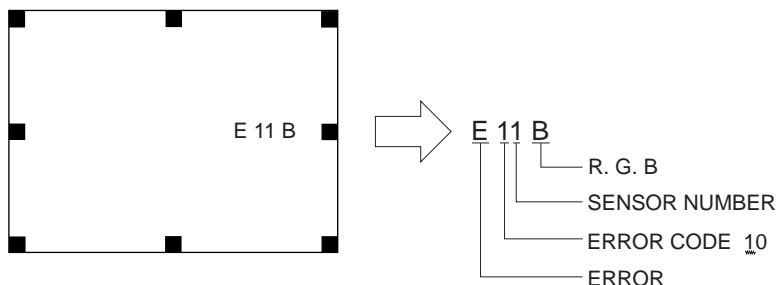
* In case of multiple error, last error is displayed.

(EXAMPLE)

11B : Left sensor Blue level low. (Left sensor circuit may be faulty.)

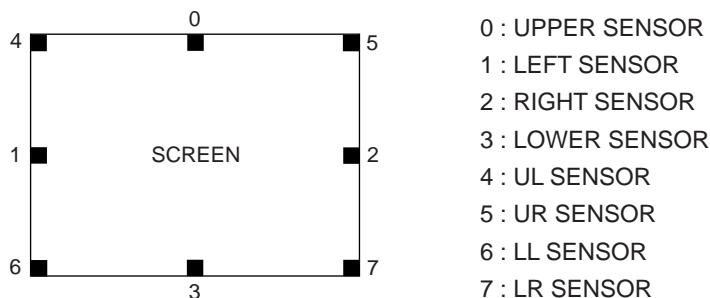
61R : "RED CENT H" offset overflow. ("PWM2" may be required adjusting.)

• ERROR CODE SCREEN DISPLAY



* Error code will be displayed on center of screen for 3 seconds.

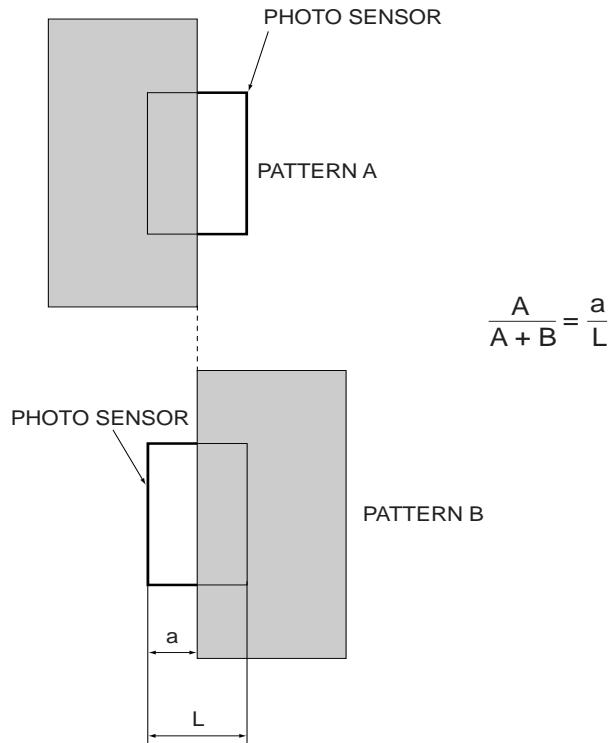
[SENSOR POSITION]



3-13. AUTO REGISTRATION SYSTEM MOVEMENT

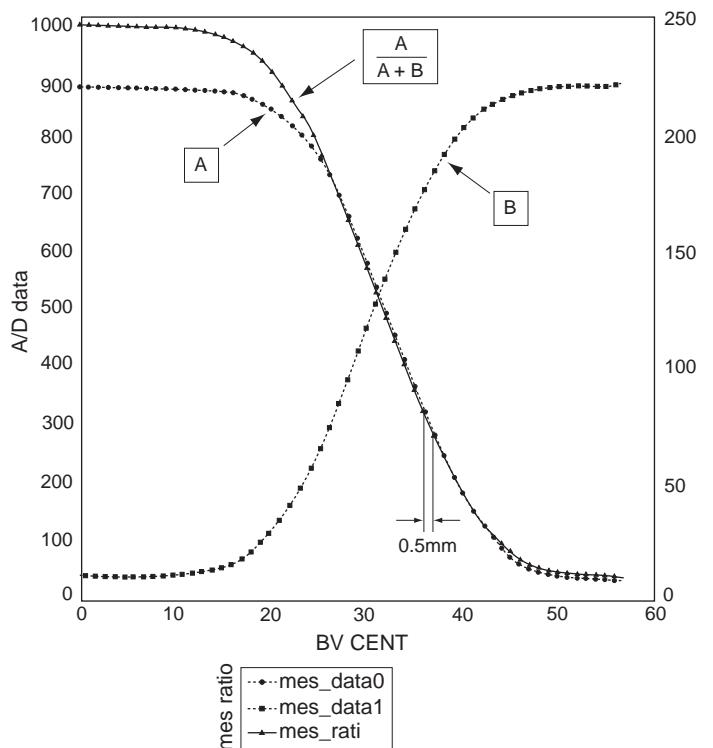
[OVERVIEW]

1. MEASUREMENT PRINCIPAL

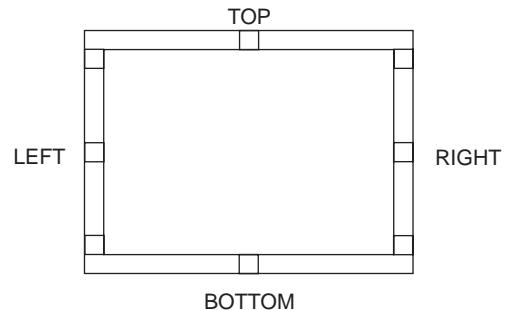


$$\text{Resolution} = \frac{10\text{mm}}{256 \text{ (8bit)}} = 40 \mu$$

2. PARAMETER CALCULATION



3. FORMULAS



$$H \text{ CENT} = \text{TOP} + \text{BOTTOM}$$

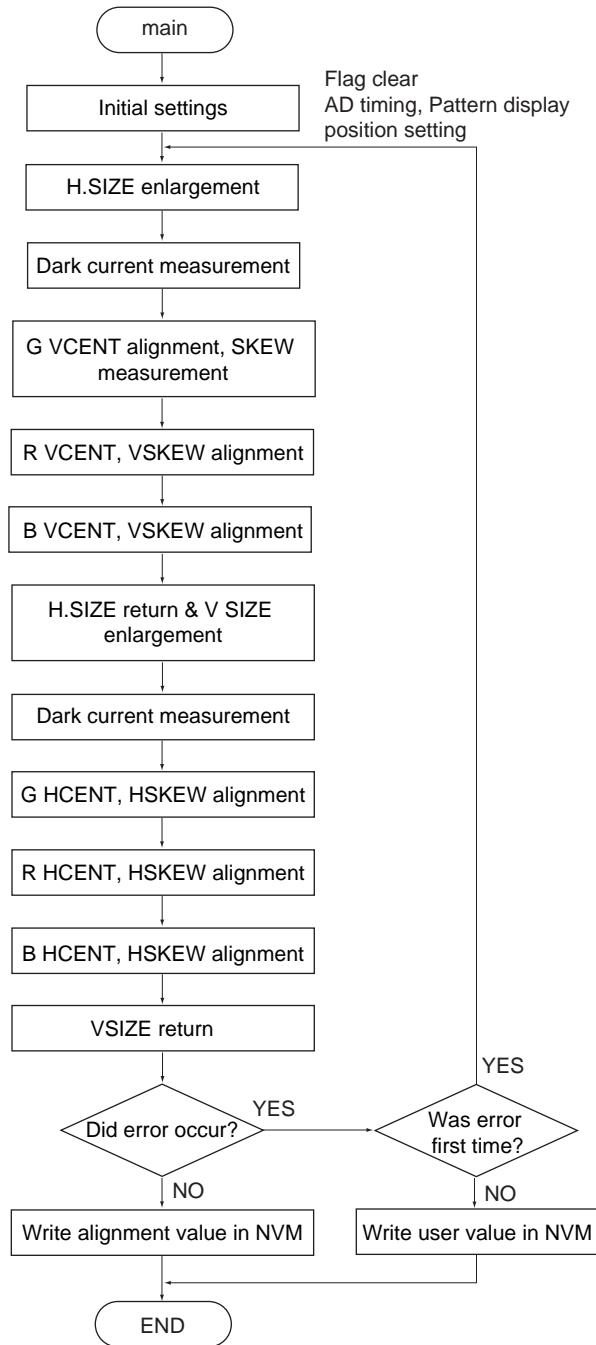
$$H \text{ SKEW} = \text{TOP} - \text{BOTTOM}$$

$$V \text{ CENT} = \text{RIGHT} + \text{LEFT}$$

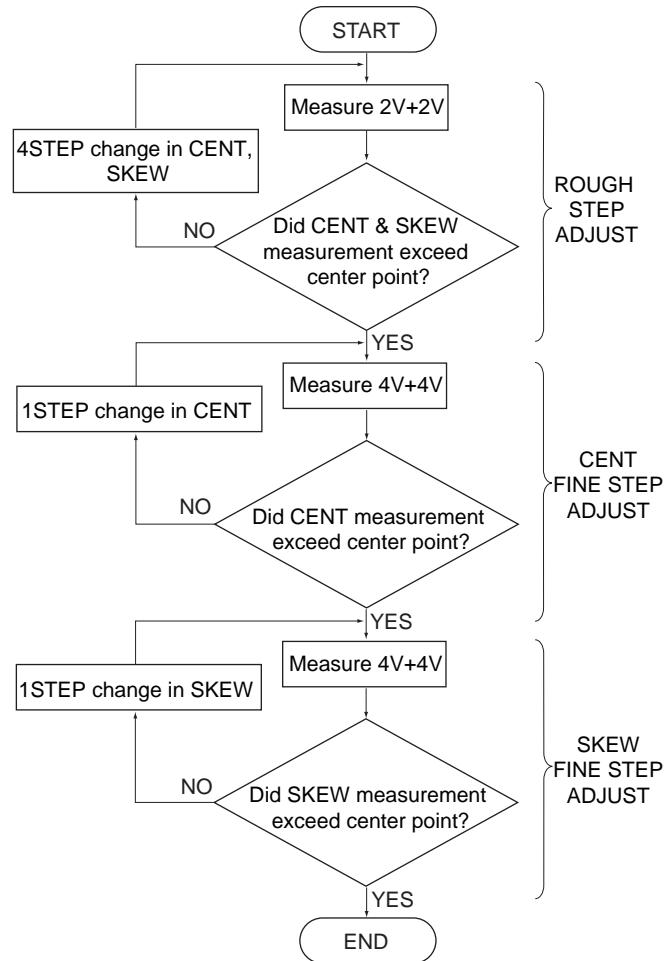
$$V \text{ SKEW} = \text{RIGHT} - \text{LEFT}$$

$$\left. \begin{aligned} H \text{ LIN} &= \text{RIGHT} + \text{LEFT} - (\text{TOP} + \text{BOTTOM}) \\ H \text{ SIZE} &= \text{RIGHT} - \text{LEFT} \end{aligned} \right\}$$

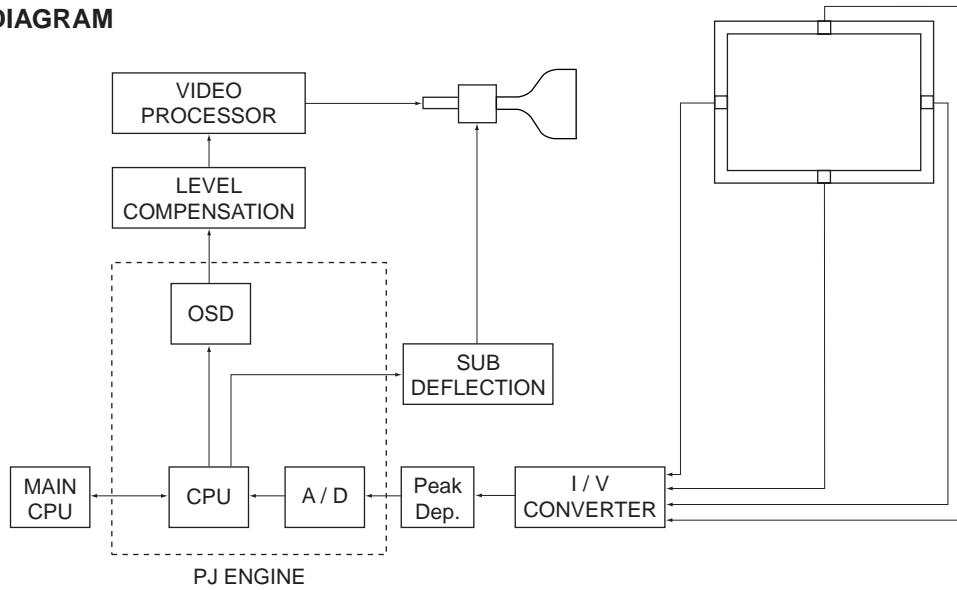
4. MAIN FLOWCHART (PJED)



5. CENT, SKEW ADJUSTMENT

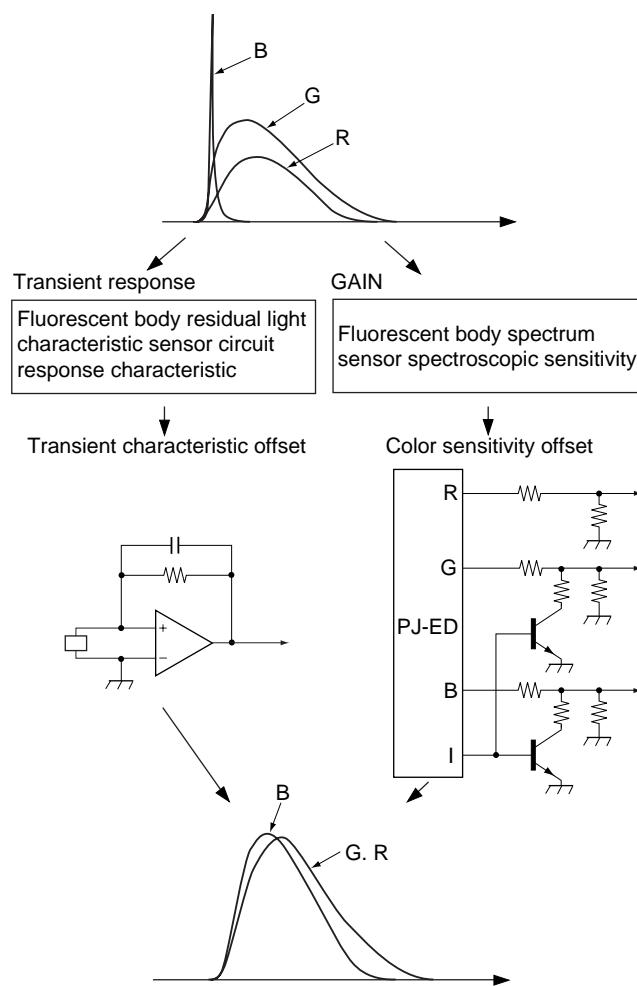


6. BLOCK DIAGRAM



[OFFSET PROCESSING]

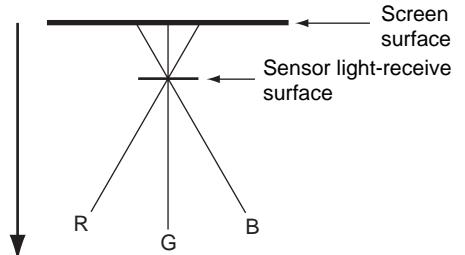
1. SENSITIVITY OFFSET FOR COLOR (HARDWARE)



2. SOFTWARE OFFSET

1) Offset (compensation)

- Error due to sensor and screen surface distance



Adjust while in a properly aligned state

Store the difference using the alignment value as the "offset" value

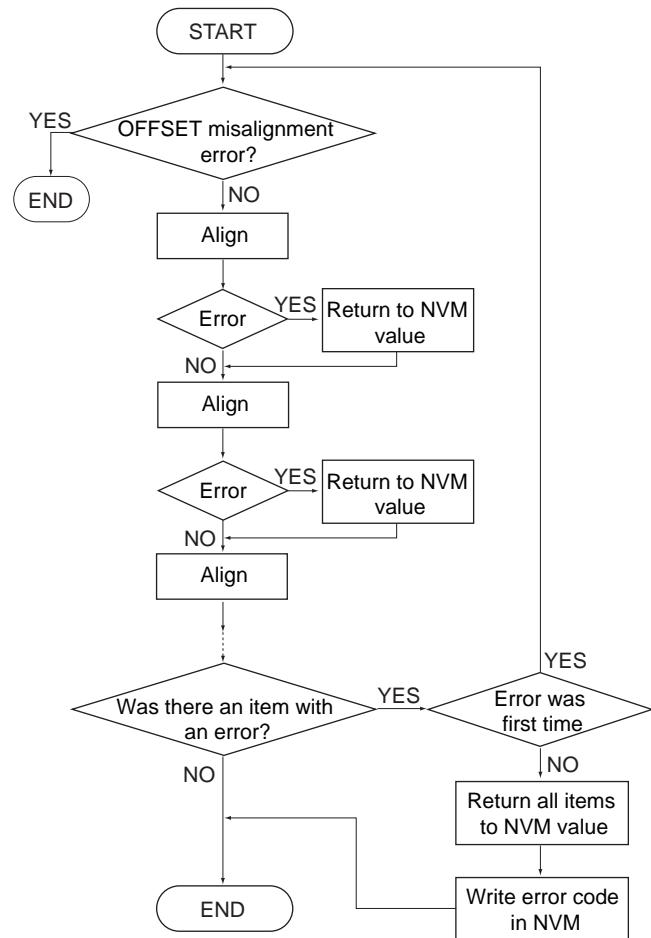
2) Dark current offset (external light)

- External light (in particular in lower sensor)
- Sensor dark current
- Circuit offset voltage, bias current

Measure the sensor output during blank periods, and calculate the difference versus the pattern measurement value.

[PROBLEM PROCESSING]

1. ERROR PROCESSING

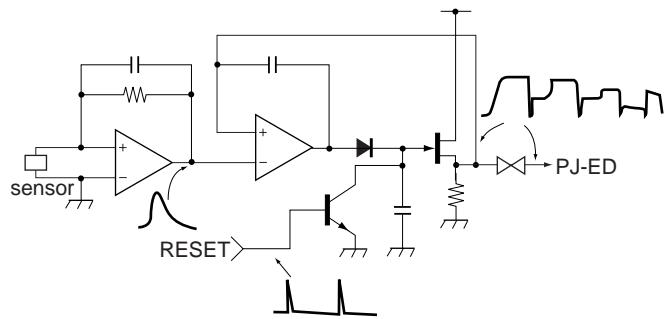


< Stopping Operation >

Press any key during alignment to stop processing and return data to the NVM value.

[TROUBLESHOOTING]

< Circuit >



< Error cause >

Sensor level LOW error

- Circuit defect
- Light not striking sensor
- External light too strong
- Black in portions

Loop count transient error

- REGI circuit defect
- Same as Sensor level LOW error

Alignment value overflow, overdraw

- Initial value is too large (small)
- Offset value is too large (small)

SECTION 4

SAFETY RELATED ADJUSTMENTS

[D BOARD]

4-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with **█** on the schematic diagram always check HV regulation, and if necessary re-adjust.

- █:** R8194, R8202
- █:** C8064, C8066, C8070, C8074, C8076, C8082
D8042
IC8002, IC8007, IC8008
Q8022
R8093, R8095, R8096, R8105, R8108
R8112, R8113, R8114, R8115, R8126
R8128, R8136, R8138, R8139, R8154
R8157, R8168, R8173, R8174, R8177
R8178, R8195, r8196, R8201
T8002 (LOT), T8003 (FBT)
HV BLOCK

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Connect a $33\text{k}\Omega$ variable resistor, set to maximum value, across CN8008.
3. Power on the set.
4. Receive dot signal pattern.
5. Gradually lower the value of the variable resistor and check that the hold-down circuit operates at a static voltmeter reading of $31.0 \pm 0.5\text{kV}$ dc when the raster disappears.

HV HOLD-DOWN ADJUSTMENT

1. REPART STEPS ① ~ ⑤ as above.
2. Just at the point hold-down circuit begins to operate switch off the set.
3. Remove the VR connected across CN8008, and measure its resistance.
4. Solder a resistor value, nearest to the measured value, across CN8008.
5. Reconfirm operation check.

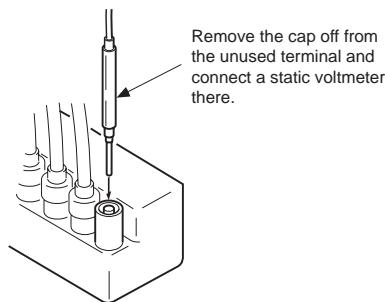


Fig. 4-1

4-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with **█** on the schematic diagram always check hold-down voltage and if necessary re-adjust.

- █:** R8196, R8201
- █:** D8026, D8032, D8035, D8050
IC8006, IC8009, IC8010
Q8021, Q8031
R8092, R8094, R8097, R8109, R8110, R8117,
R8118, R8121, R8123, R8125, R8129, R8135,
R8140, R8155, R8190, R8191, R8192, R8193,
R8194, R8198, R8202
T8002 (LOT), T8003(FBT)
HV BLOCK, D BOARD

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Receive dot signal pattern.
4. Check that the HV static voltmeter is reading $34.0 \pm 0.5\text{V}$ dc.

HV Regulation ADJUSTMENT

1. Repart step ① as above.
2. Connect $33\text{k}\Omega$ variable resistor, set to maximum value, to CN8008.
3. Power on the set.
4. Receive dot signal pattern.
5. Gradually lower the value of the variable resistor until the static voltmeter is reading $34.0 \pm 0.5\text{kVdc}$.
6. Switch off the set.
7. Remove the VR connected across CN8008, and measure its value.
8. Solder a resistor value, nearest to the measured value, across CN8008.
9. Reconfirm operation check.

4-3. +B OVP CONFIRMATION

1. Connect a voltmeter to TP. OVP and ground.
2. Supply 120VAC to variable autotransformer.
3. Power on the Set.
4. Supply 150VDC to TP. OVP.
5. Check the OVP operate.

SECTION 5
CIRCUIT ADJUSTMENTS

[MCD MODE]

5-1. TV INPUT SUB CONTRAST ADJUSTMENT
(MCD1-SCON)

1. Receive the color-bar signal.
2. Set to service mode.
3. Connect an oscilloscope between pin ② of CN511 (A board) and ground.
4. Select “ MCD1-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015\text{Vp-p}$.
5. Write the data into memory.

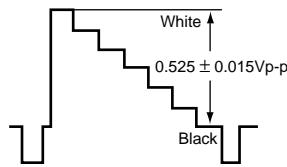
MUTING → **ENTER**

Fig. 5-1

5-3. P & P SUB CONTRAST ADJUSTMENT
(MCD2-SCON)

1. Receive the signal.
- TV terminal (main) : color-bar signal
VIDEO terminal (sub) : no signal
2. Set to P & P mode, set to service mode.
3. Connect an oscilloscope between pin ②0 of CN513 (A board) and ground.
4. Select “ MCD2-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015\text{Vp-p}$.
5. Write the data into memory.

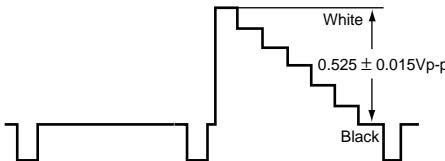
MUTING → **ENTER**

Fig. 5-3

5-2. VIDEO INPUT SUB CONTRAST ADJUSTMENT
(MCD3-SCON)

1. VIDEO 1 input the color-bar signal.
2. Set to service mode.
3. Connect an oscilloscope between pin ② of CN511 (A board) and ground.
4. Select “ MCD3-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015\text{Vp-p}$.
5. Write the data into memory.

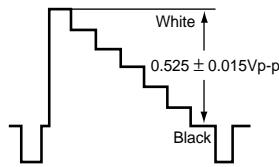
MUTING → **ENTER**

Fig. 5-2

5-4. P & P SUB CONTRAST ADJUSTMENT
(MCD4-SCON)

1. Receive the signal.
- TV terminal (sub) : no signal
VIDEO terminal (main) : color-bar signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ②0 of CN513 (A board) and ground.
4. Select “ MCD4-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015\text{Vp-p}$.
5. Write the data into memory.

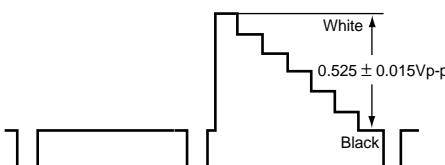
MUTING → **ENTER**

Fig. 5-4

5-5. SUB-HUE AND SUB-COLOR ADJUSTMENT **(MCD1-SHUE, SCOL)**

1. Receive the color-bar signal.
2. PICTURE : maximum
 COLOR : center
 BRIGHTNESS : center
 TRINITONE : medium
 SERVICE DATA MCP1-SBRT : 25
 MCP1-SHUE : 7
 MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 1-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

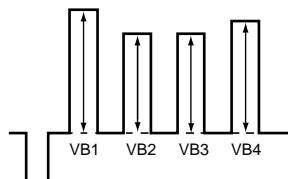


Fig. 5-5

5-6. VIDEO INPUT SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD3-SHUE, SCOL)

1. VIDEO input the color-bar signal.
2. PICTURE : maximum
 COLOR : center
 BRIGHTNESS : center
 TRINITONE : medium
 SERVICE DATA MCP1-SBRT : 25
 MCP1-SHUE : 7
 MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 3-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

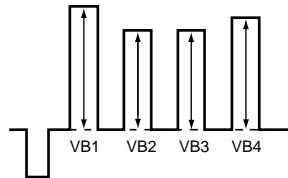


Fig. 5-6

5-7. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT **(MCD2-SHUE, SCOL)**

1. Receive the signal.
 TV terminal (main) : color-bar signal
 VIDEO terminal (sub) : no signal
2. PICTURE : maximum
 COLOR : center
 BRIGHTNESS : center
 TRINITONE : medium
 SERVICE DATA MCP1-SBRT : 25
 MCP1-SHUE : 7
 MCP1-SCOL : 7
3. Set to P & P mode, set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 2-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

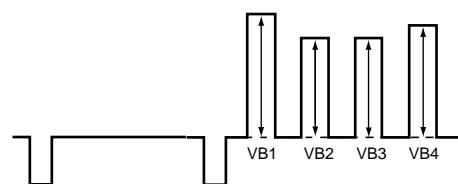


Fig. 5-7

5-8. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT **(MCD4-SHUE, SCOL)**

1. Receive the signal.
 TV terminal (main) : no signal
 VIDEO terminal (sub) : color-bar signal
2. PICTURE : maximum
 COLOR : center
 BRIGHTNESS : center
 TRINITONE : medium
 SERVICE DATA MCP1-SBRT : 25
 MCP1-SHUE : 7
 MCP1-SCOL : 7
3. Set to P & P mode, set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 4-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

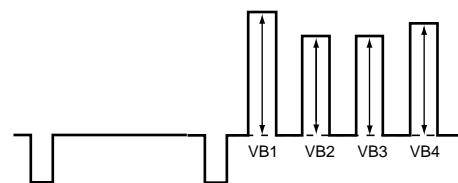


Fig. 5-8

[SCD MODE]

5-9. P & P SUB CONTRAST ADJUSTMENT (SCD1-SCON)

1. Receive the signal.
TV terminal (sub) : color-bar signal
VIDEO terminal (main) : no signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑯ of CN513 (A board) and ground.
4. Select “SCD1-SCON”, and adjust so that the wave from level is $0.525 \pm 0.015\text{Vp-p}$.
5. Write the data into memory.
MUTING → **ENTER**

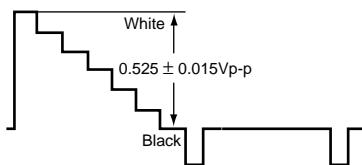


Fig. 5-9

5-10. P & P SUB CONTRAST ADJUSTMENT (SCD2-SCON)

1. Receive the signal.
TV terminal (main) : no signal
VIDEO terminal (sub) : color-bar signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑯ of CN513 (A board) and ground.
4. Select “SCD2-SCON”, and adjust so that the wave from level is $0.525 \pm 0.015\text{Vp-p}$.
5. Write the data into memory.
MUTING → **ENTER**

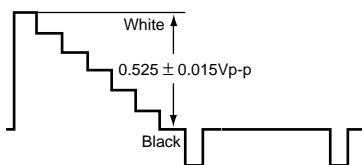


Fig. 5-10

5-11. SUB-HUE AND SUB-COLOR ADJUSTMENT (SCD1-HUE, SCOL)

1. Receive the color-bar signal.
2. PICTURE : maximum
COLOR : center
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “SCD1-SHUE, SCOL”, and adjust them to have $\text{VB1} = \text{VB4}$ and $\text{VB2} = \text{VB3}$ in the waveform levels.
6. Write the data into memory.
MUTING → **ENTER**

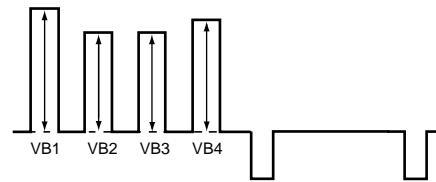


Fig. 5-11

5-12. SUB-HUE AND SUB-COLOR ADJUSTMENT (SCD2-HUE, SCOL)

1. Receive the color-bar signal.
2. PICTURE : maximum
COLOR : center
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “SCD2-HUE, SCOL”, and adjust them to have $\text{VB1} = \text{VB4}$ and $\text{VB2} = \text{VB3}$ in the waveform levels.
6. Write the data into memory.
MUTING → **ENTER**

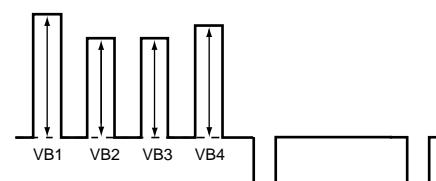


Fig. 5-12

[MCD MODE]

5-13. SUB CONTRAST ADJUSTMENT (MCD1-SCON)

1. Receive the color-bar signal.
2. PICTURE : maximum
- COLOR : minimum
- BRIGHTNESS : center
- TRINITONE : medium
3. Set to service mode.
4. Connect an oscilloscope between pin ③ of CN503 (A board) and ground.
5. Select “ MCD1-SCON ”, and adjust so that the wave from level is $1.85 \pm 0.03\text{Vp-p}$.
6. Write the data into memory.

MUTING → **ENTER**

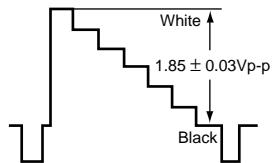


Fig. 5-13

5-14. DISPLAY POSITION ADJUSTMENT (OSD-HPOS)

1. Receive the monoscope signal.
2. Set to Service mode.
3. Select “ OSD-HPOS ”, and adjust so that the left edge of MENU is as shown to the spec.
4. Write the data into memory.

MUTING → **ENTER**

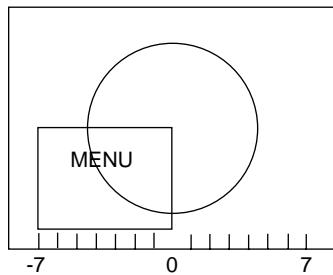


Fig. 5-14

5-15. CAPTION VISION POSITION ADJUSTMENT (MCCD-CCDH)

1. Receive signal with CAPTION VISION data.
2. Set to Service mode.
3. Display TEXT BOX.
4. Select “ MCCD-CCDH ”, and adjust data so that $A \neq B$.
5. Write the data into memory.

MUTING → **ENTER**

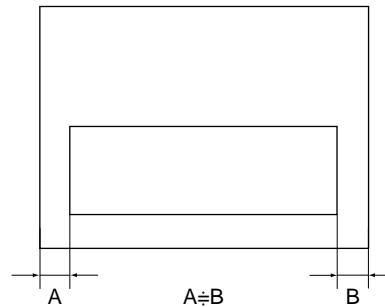


Fig. 5-15

5-16. MID DISPLAY POSITION ADJUSTMENT (MID-HPOS)

1. Display 1/9 size PIP.
2. Set to Service mode.
3. Select “ MID-HPOS ”, and adjust data so that $A \neq B$.
4. Write the data into memory.

MUTING → **ENTER**

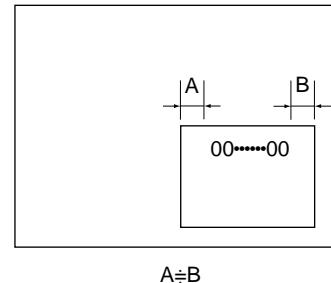


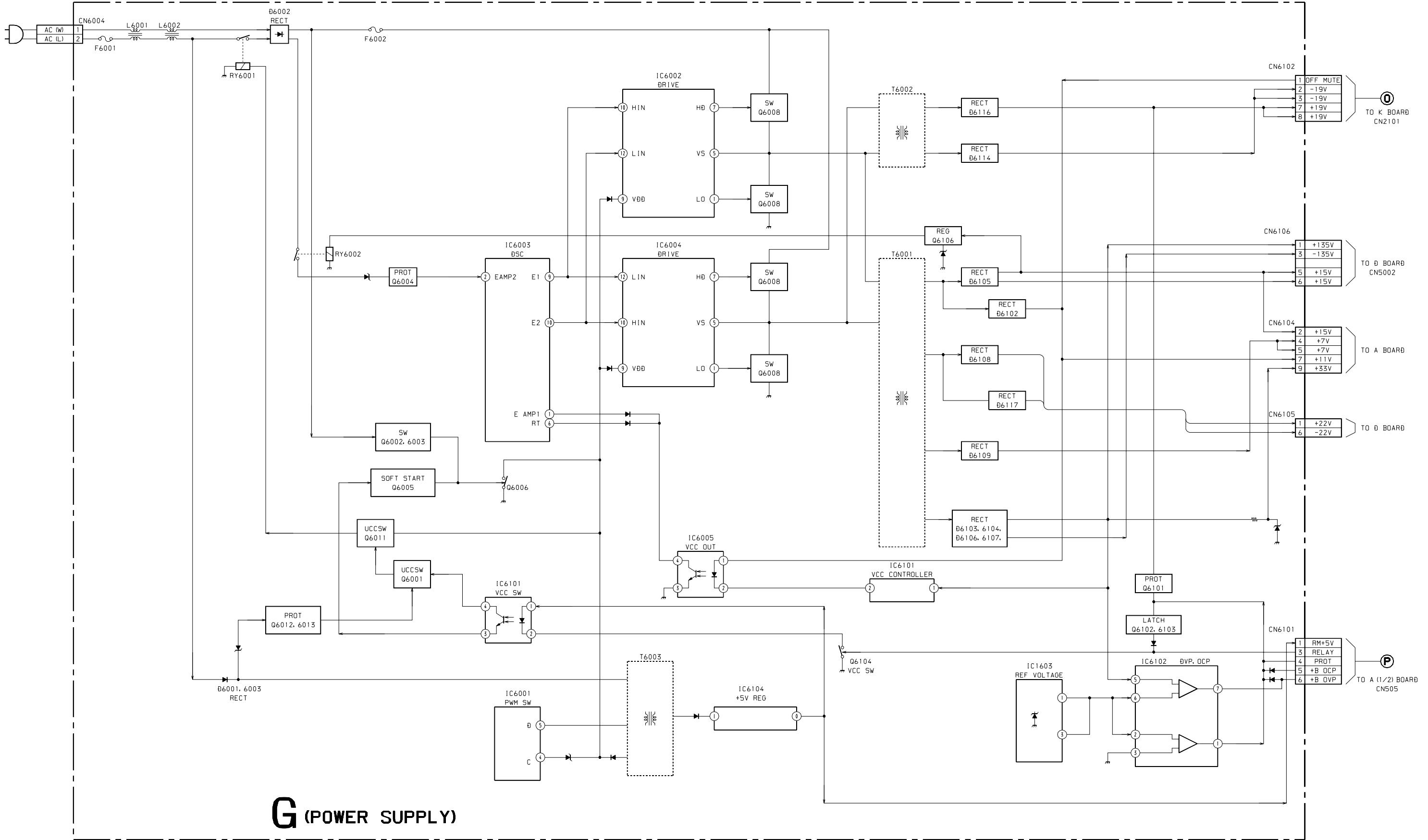
Fig. 5-16

MEMO

SECTION 6

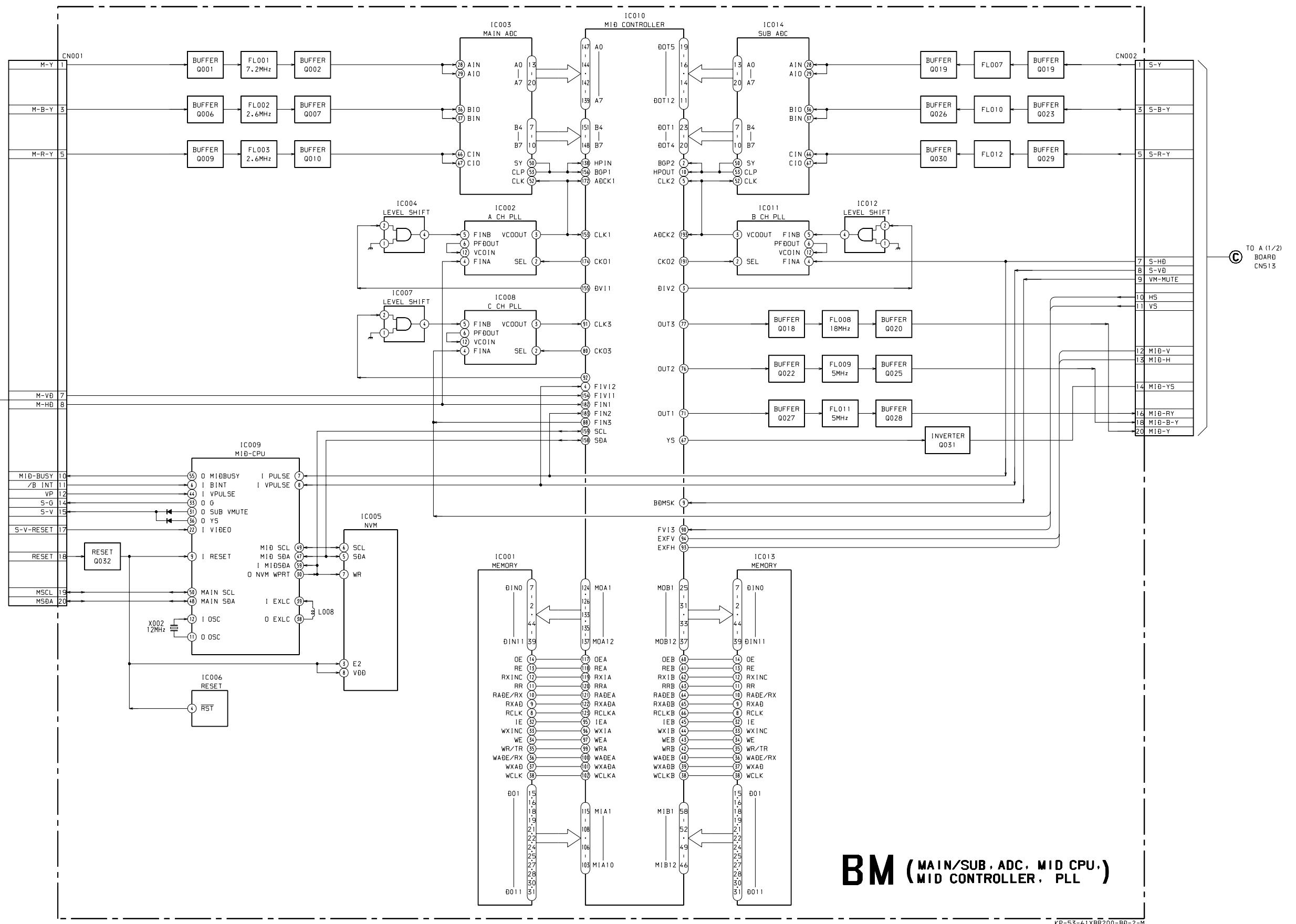
DIAGRAMS

6-1. BLOCK DIAGRAM (1)



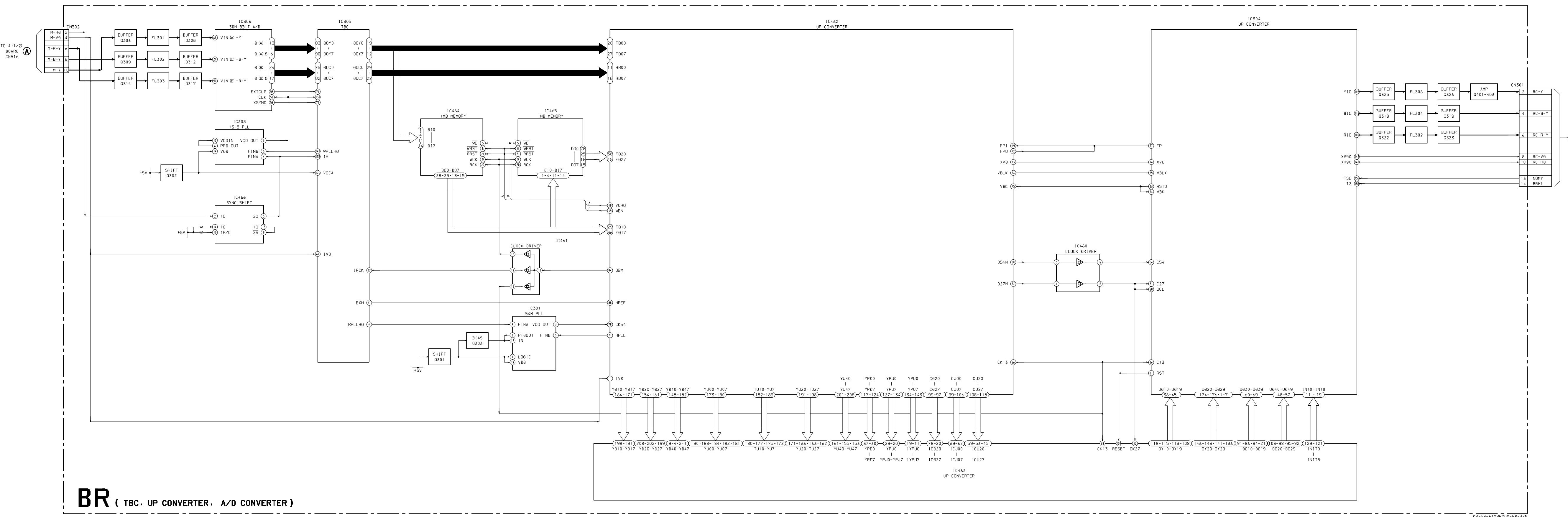
G (POWER SUPPLY)

BLOCK DIAGRAM (2)

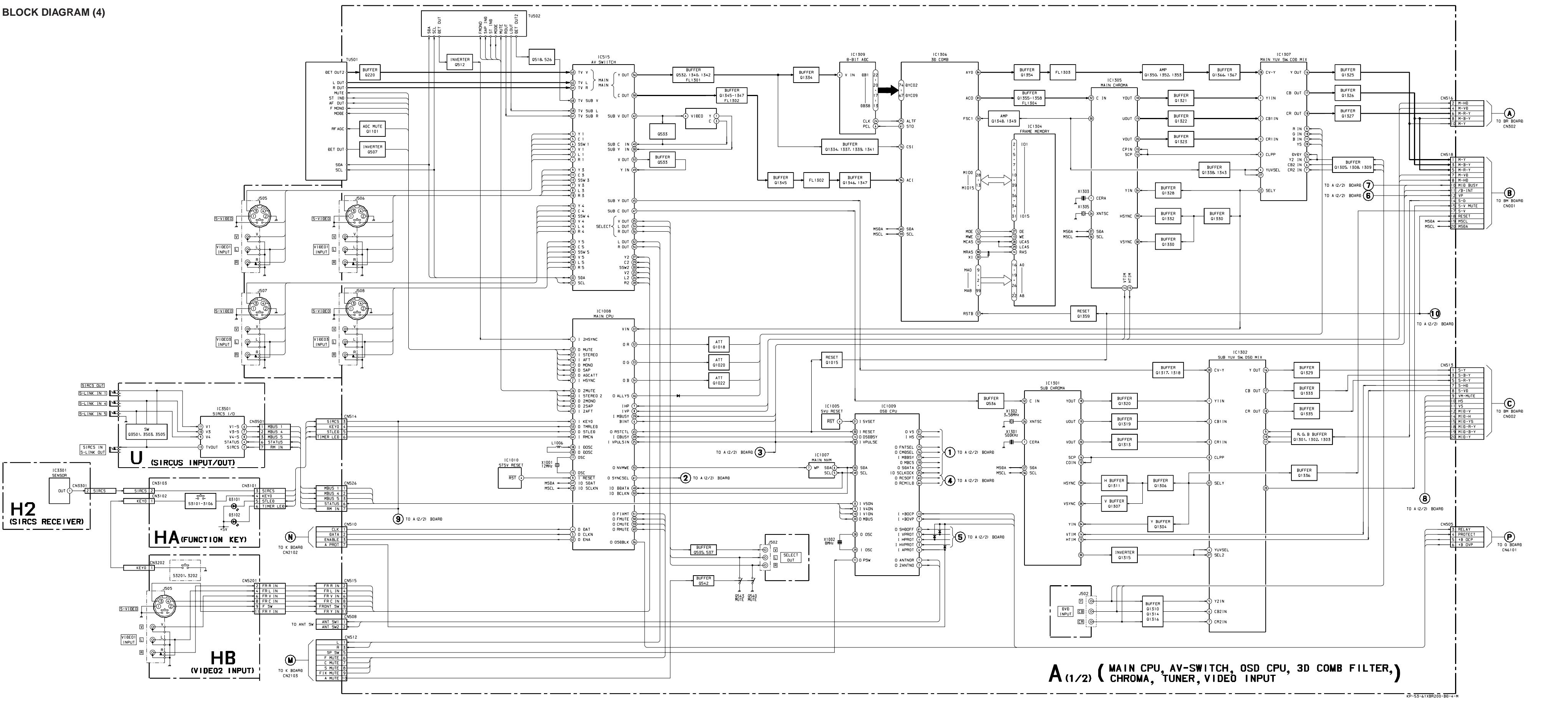


M (MAIN/SUB , ADC , MID CPU ,)

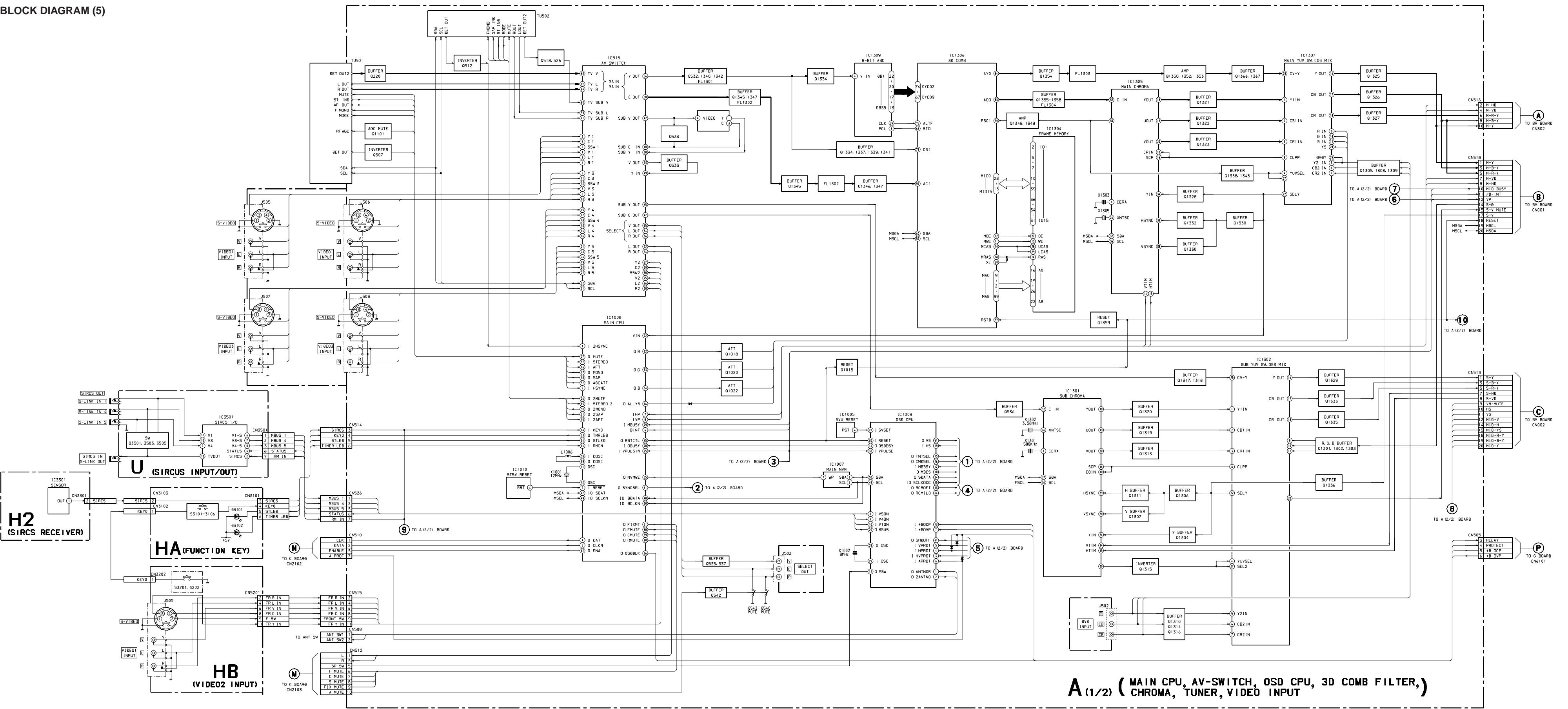
BLOCK DIAGRAM (3)



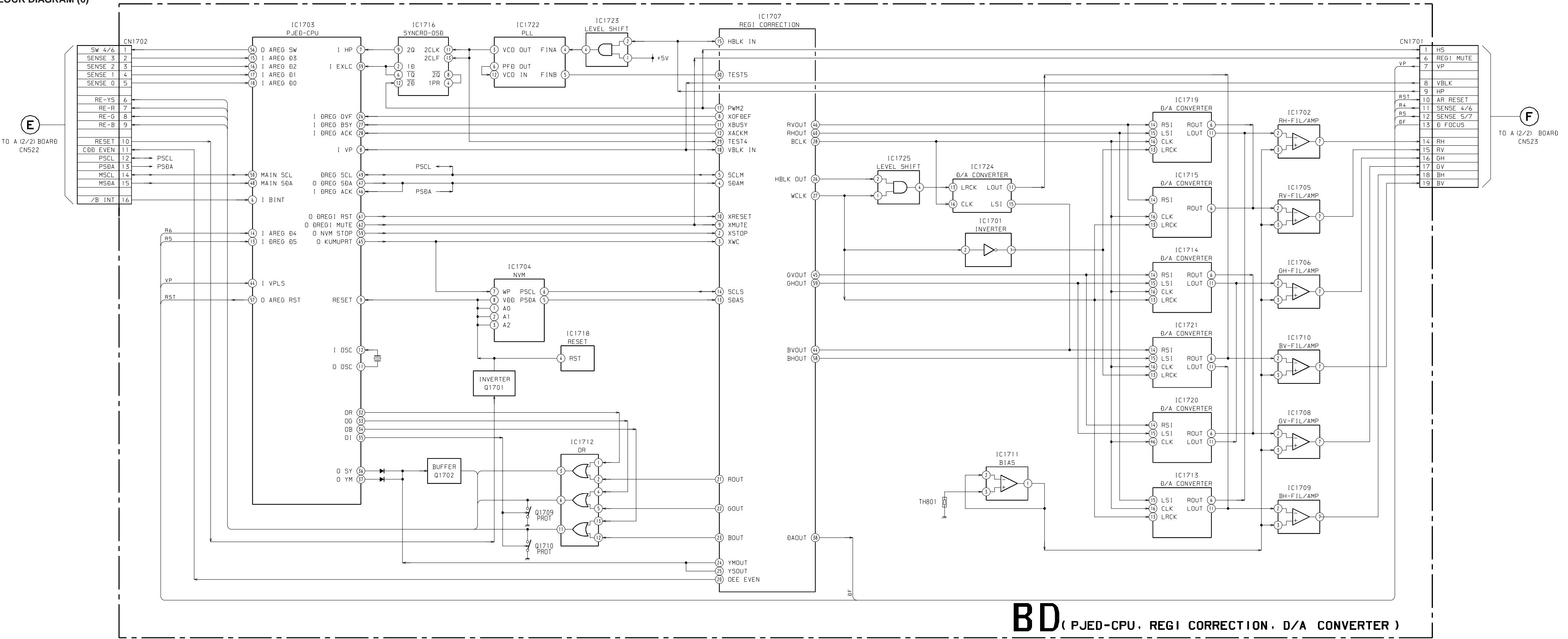
BLOCK DIAGRAM (4)



BLOCK DIAGRAM (5)

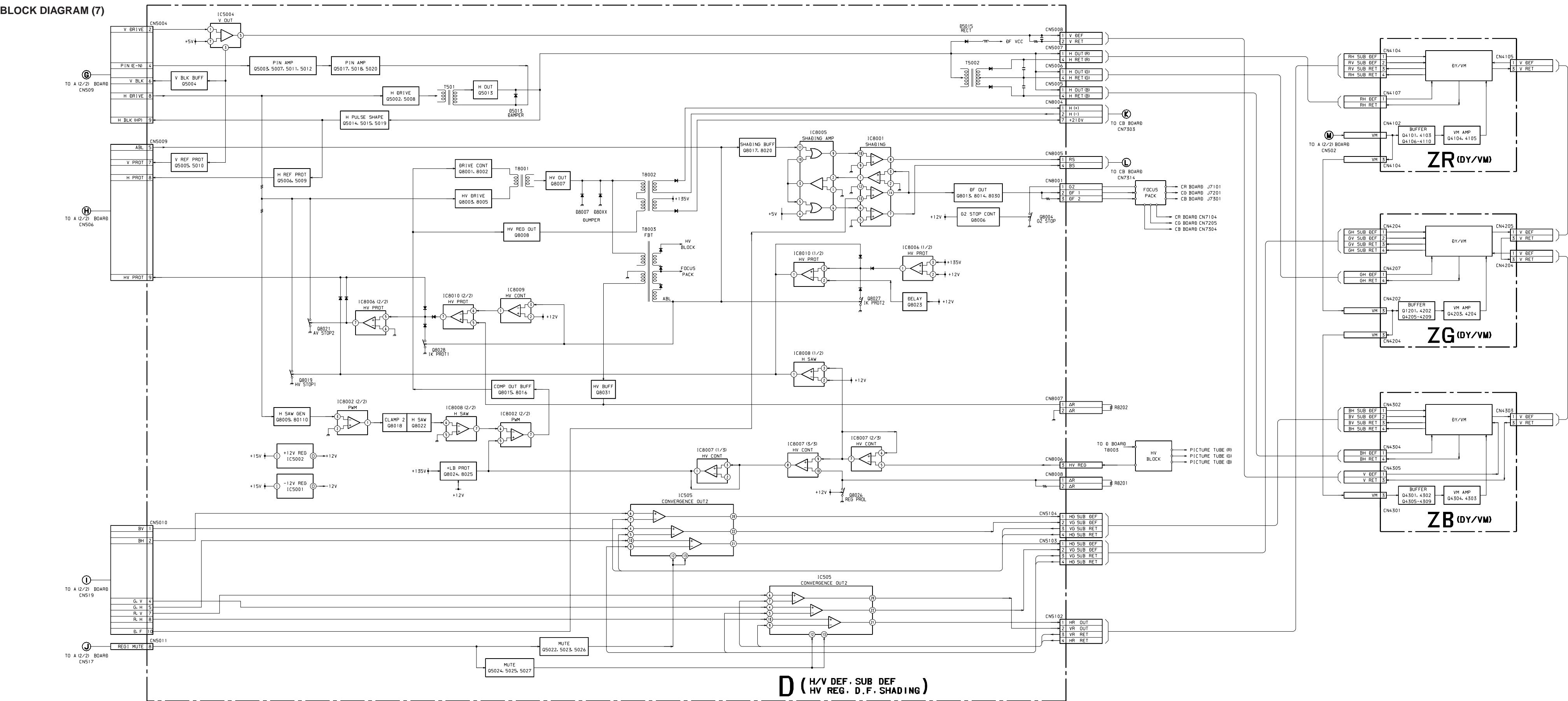


BLOCK DIAGRAM (6)

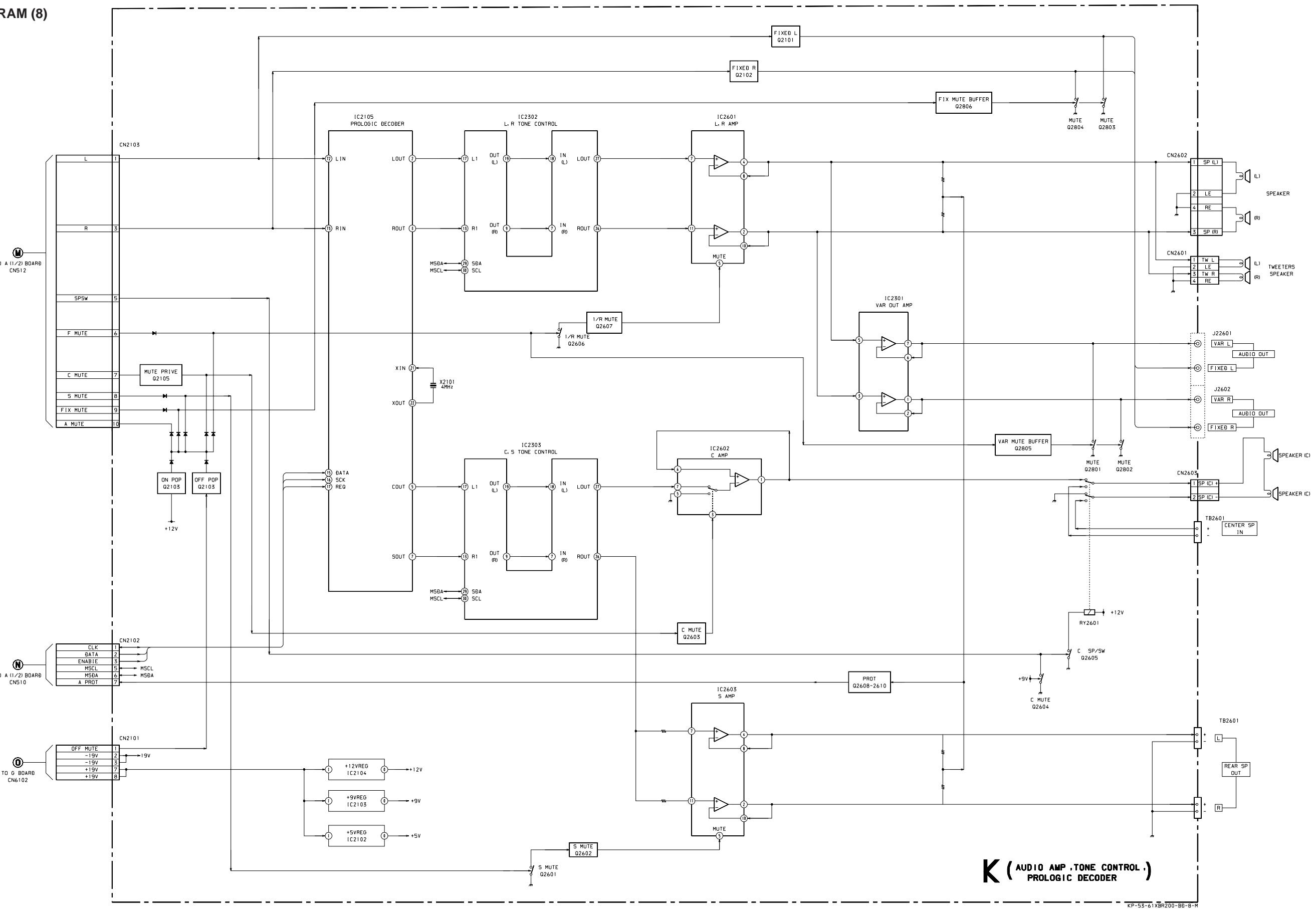


B D (PJED-CPU , REGI CORRECTION , D/A CONVERTER)

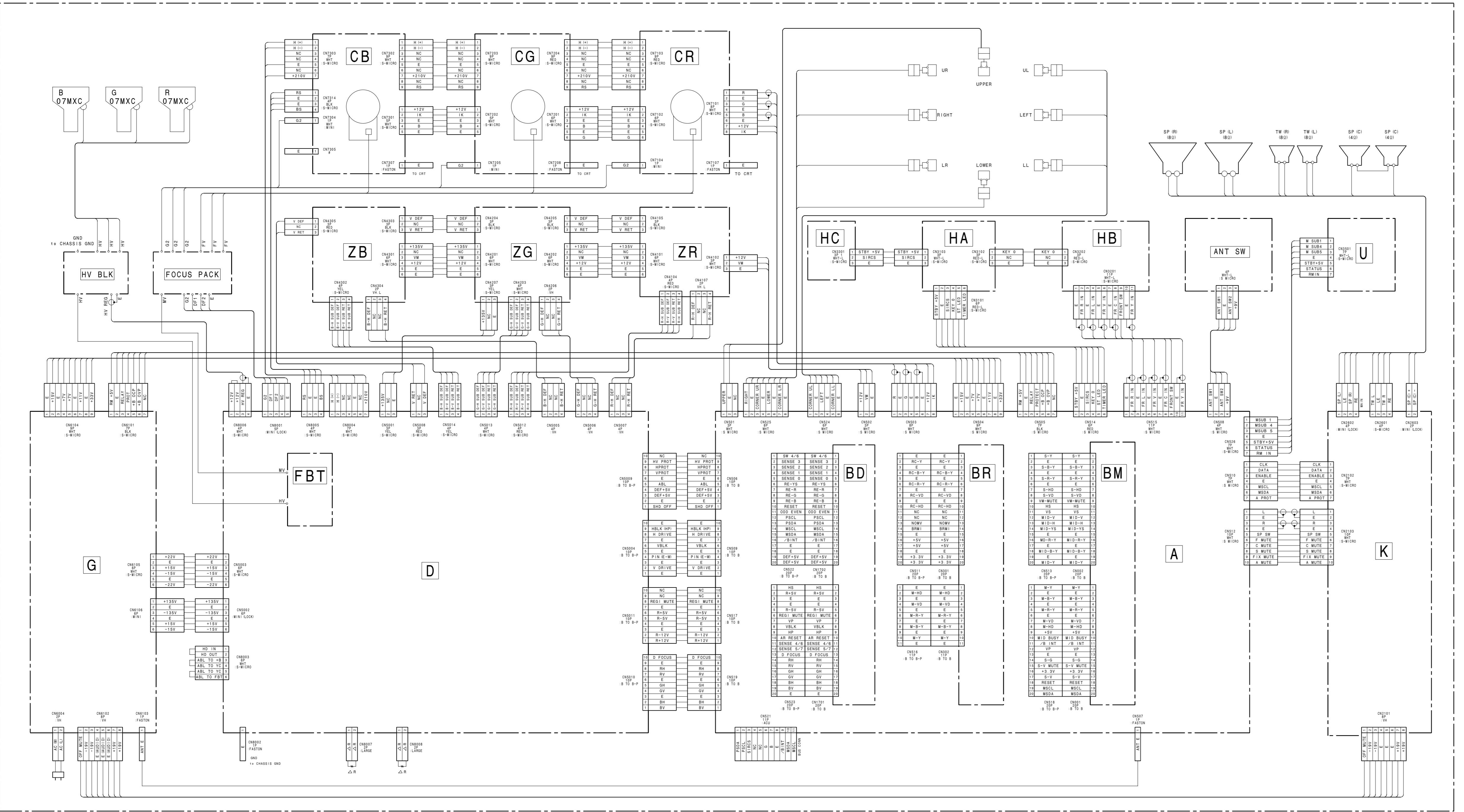
BLOCK DIAGRAM (7)



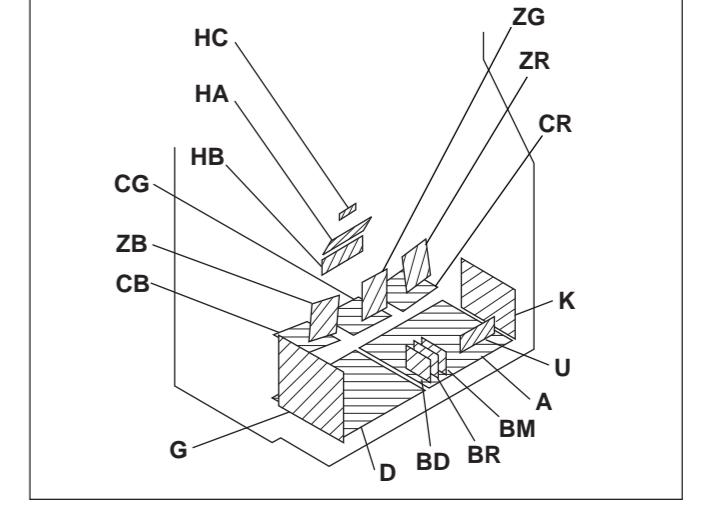
BLOCK DIAGRAM (8)



6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



Reference information		
RESISTOR	:	RN METAL FILM
	:	RC SOLID
	:	FPRD NONFLAMMABLE CARBON
	:	FUSE NONFLAMMABLE FUSIBLE
	:	RW NONFLAMMABLE WIREWOUND
	:	RS NONFLAMMABLE METAL OXIDE
	:	RB NONFLAMMABLE CEMENT
	:	※ ADJUSTMENT RESISTOR
COIL	:	LF-8L MICRO INDUCTOR
CAPACITOR	:	TA TANTALUM
	:	PS STYROL
	:	PP POLYPROPYLENE
	:	PT MYLAR
	:	MPS METALIZED POLYESTER
	:	MPP METALIZED POLYPROPYLENE
	:	ALB BIPOLAR
	:	ALT HIGH TEMPERATURE
	:	ALR HIGH RIPPLE

6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- Capacitors without voltage indication are all 50V.
- All resistors are in ohms.
 $k\Omega=1000\Omega$, $M\Omega=1000k\Omega$
- Indication of resistance, which dose not have one for rating electrical power, is
false.

Symbol display is on the component slide.

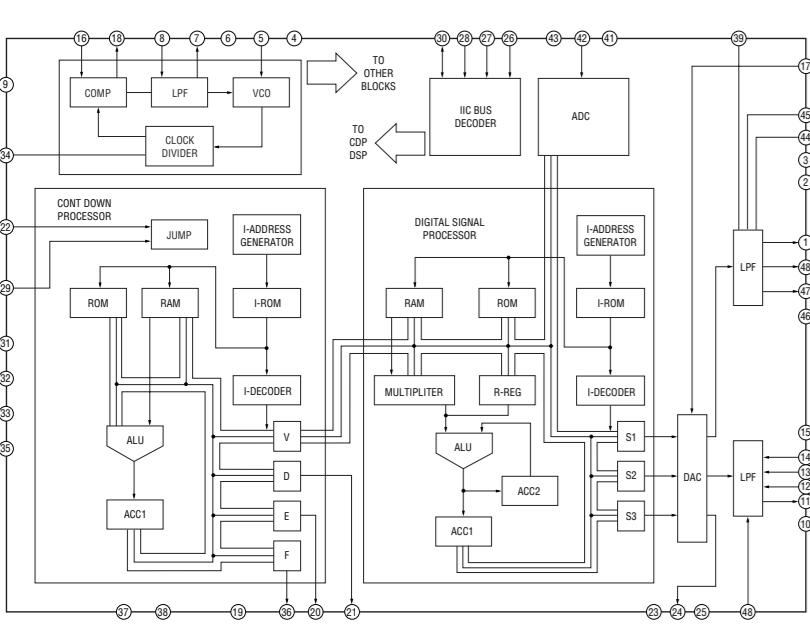
Components identified by shading and mark  critical for safety. Replace only with part number specified.

Symbol  indicate fast operating fuse.
Use only with fuse of same rating as marked.

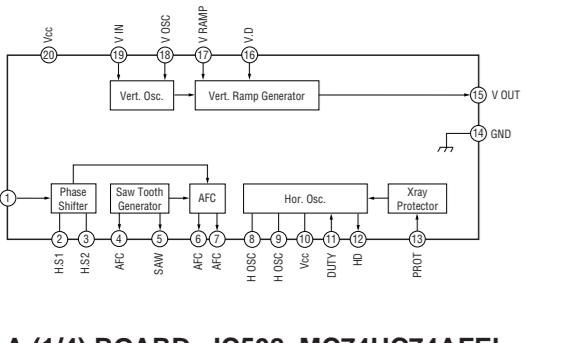
name of semiconductors in silk screen

Printed symbol	Terminal name	Circuit
	Collector Base Emitter	
	Collector Base Emitter	
	Cathode Anode	
	Anode (NC)	
	Cathode Anode (NC)	
	Common Anode Cathode	
	Common Anode Cathode	
	Common Anode Anode	
	Common Anode Anode	
	Common Cathode Cathode	
	Common Cathode Cathode	
	Anode Anode Cathode Cathode	
	Drain Source Gate	
	Drain Source Gate	

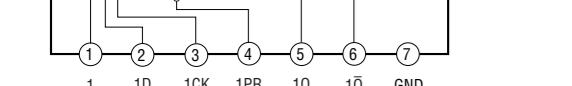
A (1/4) BOARD : IC512 CXD2018Q



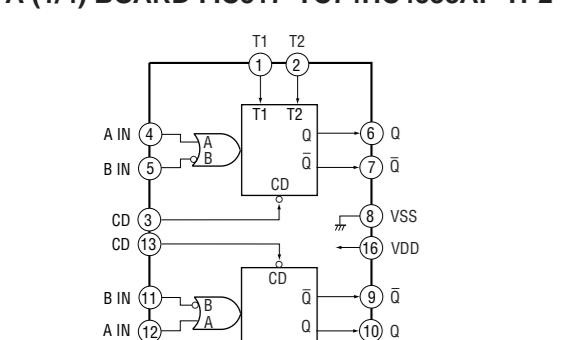
A (1/4) BOARD : IC507 LA7856



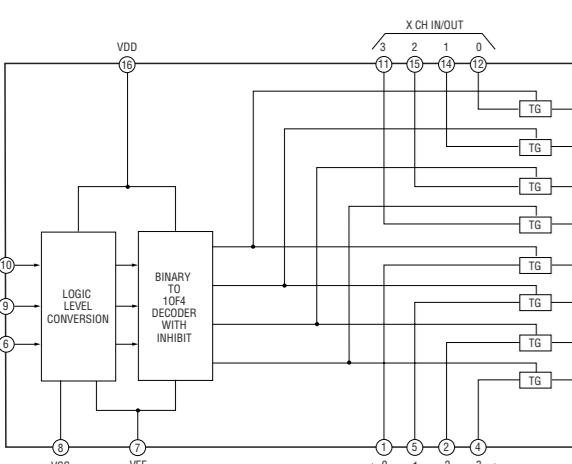
A (1/4) BOARD : IC508 MC74HC74AFEL



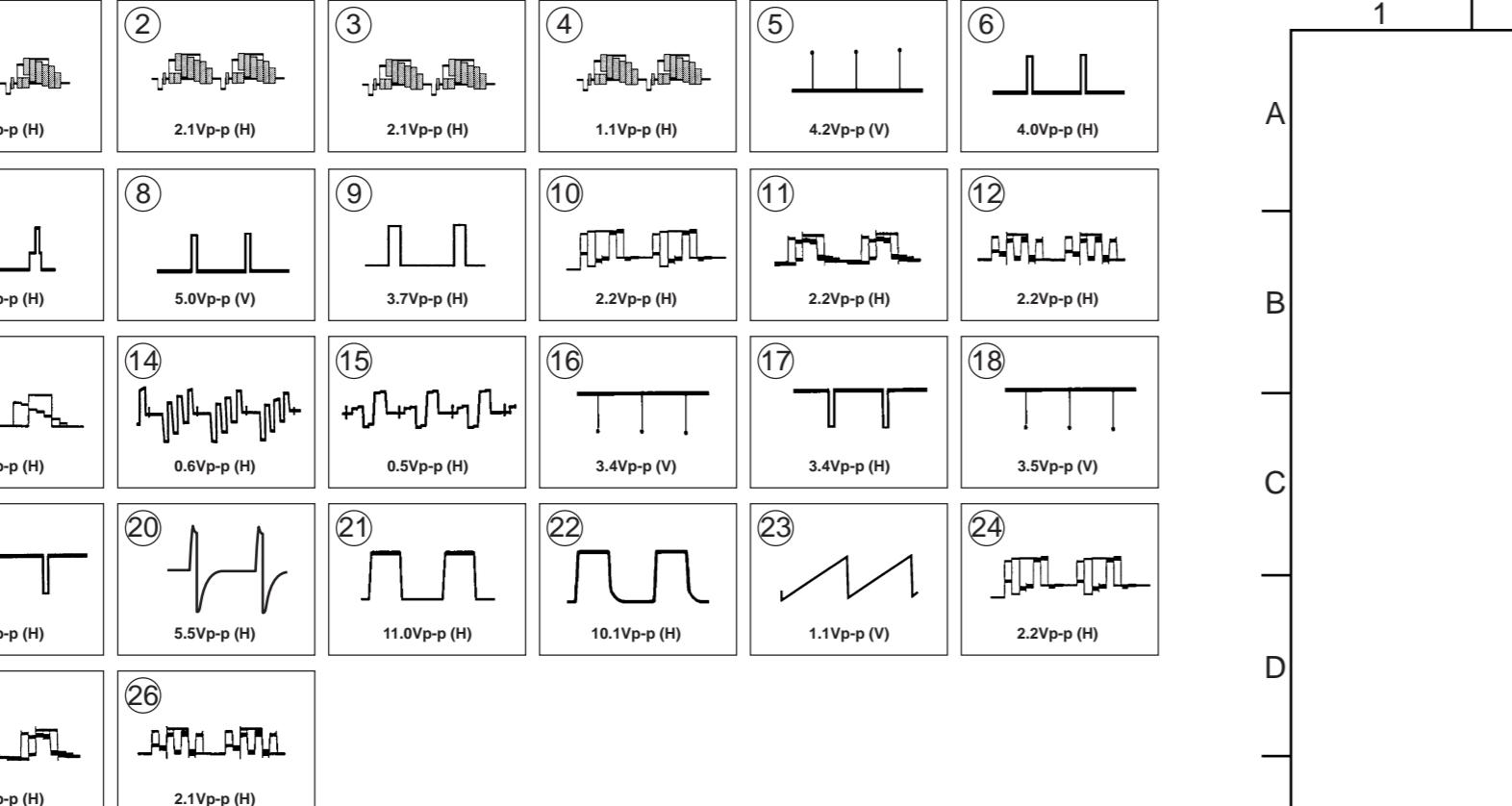
A (1/4) BOARD : IC517 TC74HC4538AF-TP2



A (1/4) BOARD : IC509 MC74HC4052EL

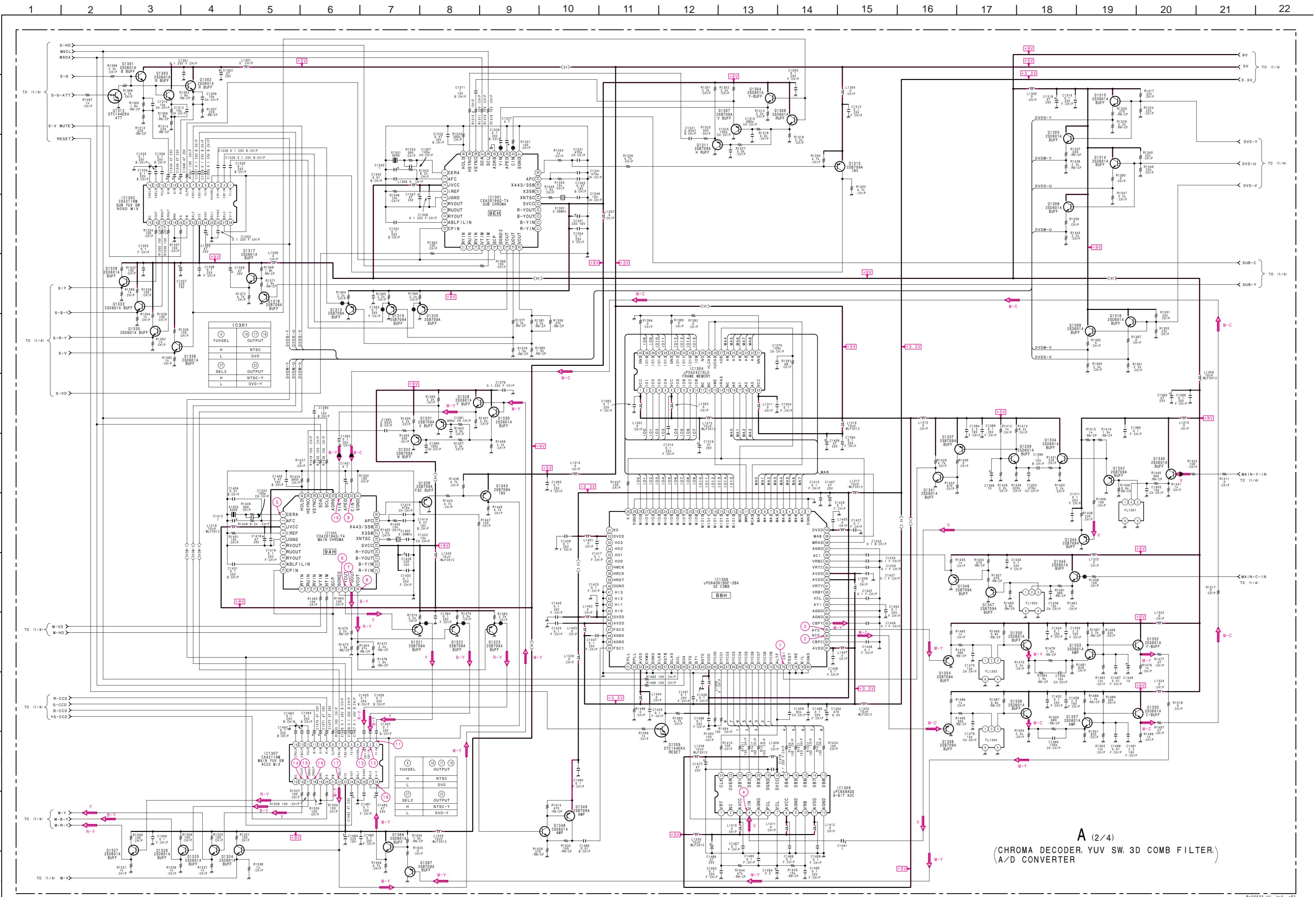


• A (1/4) BOARD WAVEFORMS



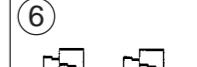
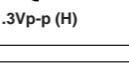
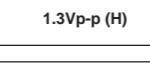
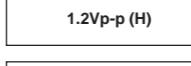
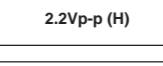
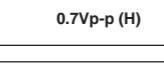
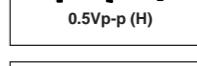
A (1/4) BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC501	14.6	3.4	52	4.8	3.0	31	5.0	32	3.5		
	G	GND		4	GND		33	5.0	34	4.0	
IC503	1.1	6.5	53	5.0	3.5	35	5.0	36	4.0		
	G	GND		6	GND		37	5.0	38	4.0	
IC504	I	6.0	54	7.0	3.5	39	5.0	40	4.0		
	G	GND		8	0.1	41	5.0	41	4.0		
IC505	I	11.0	55	9.0	0.1	42	4.0	42	4.0		
	G	GND		10	GND		43	4.0	43	4.0	
IC506	I	11.0	56	12	3.4	44	4.0	44	4.0		
	G	GND		13	3.1	45	4.0	45	4.0		
IC507	I	6.5	57	14	GND	46	GND	46	GND		
	G	GND		15	3.1	47	4.0	47	4.0		
IC508	I	11.0	58	16	5.0	48	4.0	48	4.0		
	G	GND		17	3.1	49	4.0	49	4.0		
IC509	I	11.0	59	18	5.0	50	4.0	50	4.0		
	G	GND		19	5.0	51	4.0	51	4.0		
IC510	I	2.0	60	2.0	5.0	52	4.0	52	4.0		
	G	GND		21	3.0	53	4.0	53	4.0		
IC511	I	1.3	61	5.0	4.1	54	4.0	54	4.0		
	G	GND		22	7.0	55	4.0	55	4.0		
IC512	I	7.2	62	5.0	4.1	56	4.0	56	4.0		
	G	GND		23	7.8	57	4.0	57	4.0		
IC513	I	2.7	63	5.0	4.1	58	4.0	58	4.0		
	G	GND		24	0	59	4.0	59	4.0		
IC514	I	2.0	64	4.9	4.1	60	4.0	60	4.0		
	G	GND		25	3.1	61	4.0	61	4.0		
IC515	I	2.0	65	4.9	4.1	62	4.0	62	4.0		
	G	GND		26	3.1	63	4.0	63	4.0		
IC516	I	2.0	66	3.1	4.1	64	4.0	64	4.0		
	G	GND		27	5.0	65	4.0	65	4.0		
IC517	I	2.0	67	4.9	4.1	66	4.0	66	4.0		
	G	GND		28	5.0	67	4.0	67	4.0		
IC518	I	2.0	68	4.9	4.1	68	4.0	68	4.0		
	G	GND		29	5.0	69	4.0	69	4.0		
IC519	I	2.0	70	5.0	4.1	71	4.0	71	4.0		
	G	GND		31	5.0	72	4.0	72	4.0		
IC520	I	2.0	73	5.0	4.1	73	4.0	73	4.0		
	G	GND		32	5.0	74	2.5	74	2.5		
IC521	I	2.0	75	5.0	4.1	75	4.0	75	4.0		
	G	GND		33	5.0	76	4.0	76	4.0		
IC522	I	2.0	77	5.0	4.1	77	4.0	77	4.0		
	G	GND		34	5.0	78	4.0	78	4.0		
IC523	I	2.0	79	5.0	4.1	79	4.0	79	4.0		
	G	GND		35	5.0	80	4.0	80	4.0		
IC524	I	2.0	81	5.0	4.1	81	4.0	81	4.0		
	G	GND		36	5.0	82	4.0	82	4.0		
IC525	I	2.0	83	5.0	4.1	83	4.0	83	4.0		
	G	GND		37	3.0	84	1.0	84	1.0		
IC526	I	2.0	85	5.3	4.1	85	4.0	85	4.0		
	G	GND		38	5.3	86	4.0	86	4.0		
IC527	I	2.0	87	5.3	4.1	87	4.0	87	4.0		
	G	GND		39	3.1	88	4.0	88	4.0		
IC528	I	2.0	89	5.3	4.1	89	4.0	89	4.0		
	G	GND		40	5.2	90	4.0	90	4.0		
IC529	I	2.0	91	4.4	4.1	91	4.0	91	4.0		
	G	GND		41	4.4	92	4.0	92	4.0		
IC530	I	2.0	93	4.4	4.1	93	4.0	93	4.0		
	G	GND		42	4.4	94	4.0	94	4.0		
IC531	I	2.0	95	4.4	4.1	95	4.0	95	4.0		
	G	GND		43	4.4	96	4.0	96	4.0		
IC532	I	2.0	97	4.4	4.1	97	4.0	97	4.0		
	G	GND		44	4.4	98	4.0	98	4.0		
IC533	I	2.0	99	4.4	4.1	99	4.0	99	4.0		
	G	GND		100	4.4	100	4.0	100	4.0		
IC534	I	2.0	101	4.4	4.1	101	4.0	101	4.0		
	G	GND		102	4.4	102	4.0	102	4.0		
IC535	I	2.0	103	4.4	4.1	103	4.0	103	4.0		
	G	GND		104	4.4	104	4.0	104	4.0		
IC536	I	2.0	105	4.4	4.1	105	4.0	105	4.0		
	G	GND		106	4.4	106	4.0	106	4.0		
IC537	I	2.0	107	4.4	4.1	107	4.0	107	4.0		
	G	GND		108	4.4	108	4.0	108	4.0		
IC538	I	2.0	109	4.4	4.1	109	4.0	109	4.0		
	G	GND		110	4.4	110	4.0	110	4.0		
IC539	I	2.0	111	4.4	4.1	111	4.0	111	4.0		
	G	GND		112	4.4	112	4.0	112	4.0		
IC540	I	2.0	113	4.4	4.1	113	4.0	113	4.0		
	G	GND		114	4.4	114	4.0	114	4.0		
IC541	I	2.0	115	4.4	4.1	115	4.0	115	4.0		
	G	GND		116	4.4	116	4.0	116	4.0		
IC542	I	2.0	117	4.4	4.1	11					



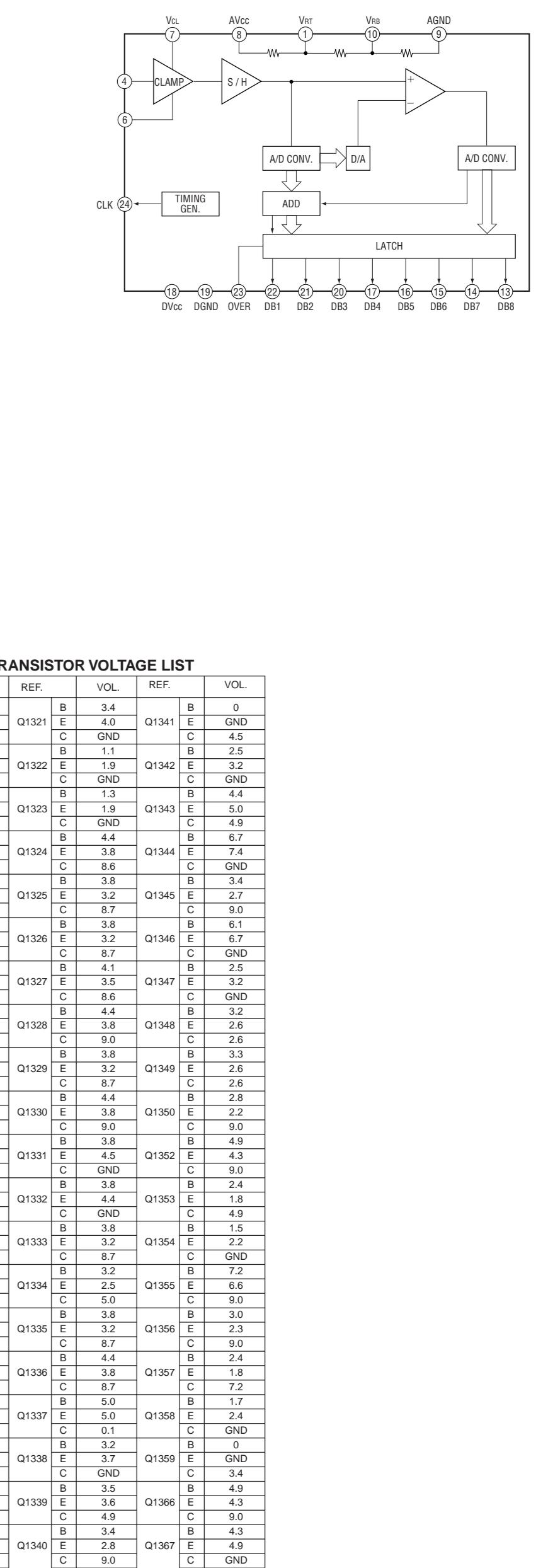
A (2/4)
(CHROMA DECODER, YUV SW, 3D COMB FILTER,
A/D CONVERTER)

• A (2/4) BOARD WAVEFORMS

 5.1Vp-p (H)	 0.4Vp-p (H)	 0.8Vp-p (H)	 0.9Vp-p (H)	 130mVp-p (500kHz)	 0.7Vp-p (H)
 1.3Vp-p (H)	 1.3Vp-p (H)	 1.2Vp-p (H)	 2.2Vp-p (H)	 0.7Vp-p (H)	 0.5Vp-p (H)
 0.5Vp-p (H)	 1.3Vp-p (H)	 1.0Vp-p (H)	 1.0Vp-p (H)	 2.3Vp-p (H)	 2.3Vp-p (H)

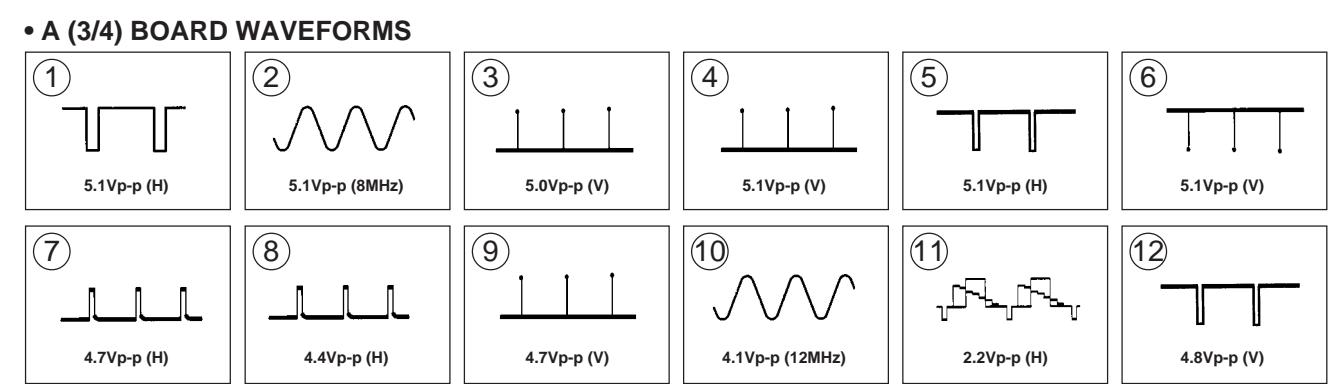
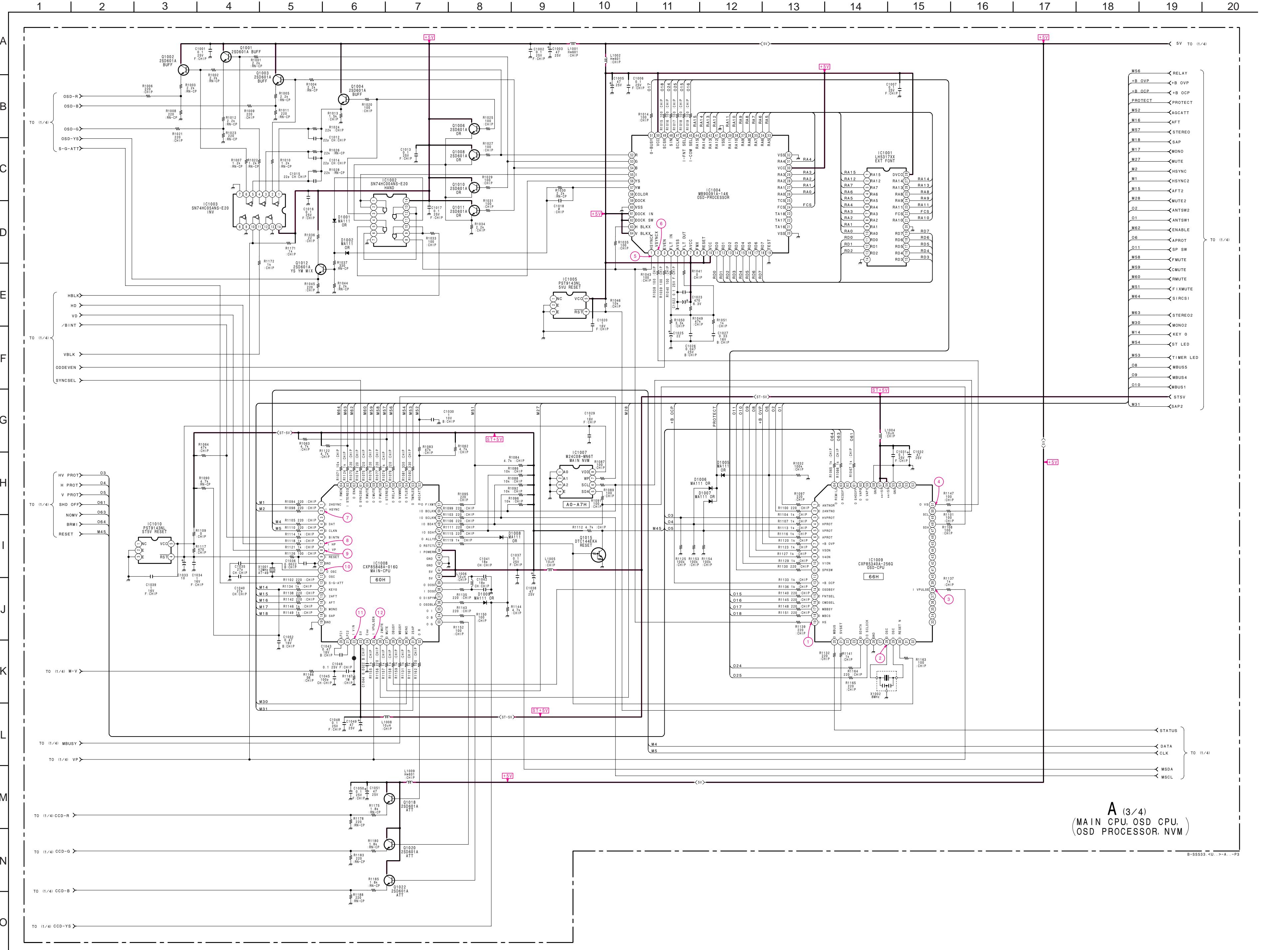
A (2/4) BOARD IC VOLTAGE LIST											
REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC1301	1	2.4	IC1304	25	GND		18	3.3		43	GND
	2	4.2		26	2.2		19	3.0		44	GND
	3	9.0		27	5.0		20	2.9		45	3.3
	4	0		28	2.2		25	9.0		46	3.3
	5	GND		1	5.0		26	2.4		47	1.8
	9	0.1		2	1.5		29	5.2		48	GND
	10	0.7		3	1.4		30	3.2		49	GND
	14	0.3		4	1.2		31	GND		50	1.5
	15	0.7		5	0		32	6.6		52	0
	16	0.7		6	5.0		33	4.1		53	3.3
	17	GND		7	0		34	4.8		54	GND
	18	3.2		8	0		35	9.0		55	GND
	19	2.9		9	0.5		36	3.7		57	3.3
	20	0		10	0		37	3.5		58	GND
	25	9.0		13	0		38	4.2		59	3.7
	26	2.5		14	0.6		39	3.3		60	3.5
	29	5.2		16	0		40	2.8		61	0.2
	30	3.2	IC1306	17	0		1	GND		64	3.3
	31	GND		18	1.6		2	1.6		65	0
	32	3.4		19	0		3	1.6		66	0
	33	4.0		20	5.0		4	1.6		67	2.1
	34	4.4		21	0		5	1.6		68	2.0
	35	GND		22	1.7		6	1.6		69	1.5
	36	3.6		23	1.7		7	1.6		70	2.7
	37	3.5		24	1.6		8	1.6		71	2.6
	38	5.1		25	1.6		9	1.6		72	2.8
	39	3.6		26	1.6		10	1.1		73	0.9
	40	0.8		27	2.6		11	2.9		74	1.3
IC1302	1	4.0		28	1.1		12	2.6		75	1.9
	2	4.0		29	1.1		13	1.1		76	4.4
	3	4.0		31	1.1		14	0.8		77	GND
	4	5.0		32	0.8		15	2.6		78	GND
	5	4.0		33	2.6		16	2.4		79	GND
	6	4.0		34	2.5		17	2.2		80	GND
	7	4.0		35	0		18	1.3		81	3.3
	8	0.8		36	2.2		19	1.8		82	1.1
	9	3.5		37	1.3		20	1.9		83	1.5
	10	3.5		38	1.8		21	0.6		84	1.5
	11	3.5		39	1.9		22	0.4		85	1.1
	12	3.6		40	0		23	2.0		86	GND
	13	3.6	IC1305	1	2.3		24	1.7		87	GND
	14	3.6		2	4.2		25	1.7		88	2.3
	16	3.8		3	9.0		26	1.1		89	0
	17	3.8		4	1.8		27	1.4		92	3.3
	18	3.8		5	GND		28	1.6		93	3.3
	19	GND		9	0		29	GND		94	3.3
	20	0		10	0.7		30	1.5		95	3.3
	21	GND		14	0.2		32	3.3		96	0
	22	4.4		15	0.7		40	GND		97	GND
	23	9.0		16	0.8		41	GND		98	0.6
									IC1307	100	3.3
										1	4.2
										2	4.0
										3	4.0
										4	4.9
										5	4.1
										6	4.0
										7	4.0
										8	0.8
										9	3.5
										10	3.5
										11	3.5
										12	3.6
										13	4.1
										14	3.8
										15	GND
										20	0
										21	GND
										22	4.4
										23	9.0
										24	2.2
										25	1.3
										26	2.2
										27	5.0
										28	2.2
									IC1309	1	3.3
										3	5.0
										4	2.7
										5	GND
										6	0.2
										7	2.6
										8	5.0
										9	GND
										10	2.3
										11	5.0
										12	GND
										13	2.2
										14	2.1
										15	1.6
										16	2.8
										17	2.7
										18	5.0
										19	GND
										20	2.9
										21	1.0
										22	1.3
										24	1.9

- All voltage are in V.



Schematic diag
A (4/4) board

REF.	Pin	VOL.	REF.	Pin	VOL.
IC1601	1	0		8	0.2
	2	0		9	0
	3	0		10	-0.05
	4	-11.9		11	-11.8
	5	GND		12	GND
	6	0		13	0
	7	0		14	0
	8	0	IC1605	1	0
	9	0		2	0.8
	10	GND		3	0
	11	-11.8		4	11.9
	12	GND		5	0
	13	0		6	1.0
	14	-0.2		7	-10.5
	15	0.9		8	-10.5
	16	12.0		9	0.9
	17	GND		10	0
	18	0		11	0
	19	2		12	0.2
	20	3		13	-11.8
	21	GND		14	0.8
	22	4		15	0.9
	23	5		16	12.0
	24	6		17	0.5
	25	7		18	0
	26	8		19	0
	27	9		20	0
	28	10		21	0
	29	11		22	0
	30	12		23	0
	31	13		24	0
	32	14		25	0
	33	15		26	0
	34	16		27	0
	35	17		28	0
	36	18		29	0
	37	19		30	0
	38	20		31	0
	39	21		32	0
	40	22		33	0
	41	23		34	0
	42	24		35	0
	43	25		36	0
	44	26		37	0
	45	27		38	0
	46	28		39	0
	47	29		40	0
	48	30		41	0
	49	31		42	0
	50	32		43	0
	51	33		44	0
	52	34		45	0
	53	35		46	0
	54	36		47	0
	55	37		48	0
	56	38		49	0
	57	39		50	0
	58	40		51	0
	59	41		52	0
	60	42		53	0
	61	43		54	0
	62	44		55	0
	63	45		56	0
	64	46		57	0
	65	47		58	0
	66	48		59	0
	67	49		60	0
	68	50		61	0
	69	51		62	0
	70	52		63	0
	71	53		64	0
	72	54		65	0
	73	55		66	0
	74	56		67	0
	75	57		68	0
	76	58		69	0
	77	59		70	0
	78	60		71	0
	79	61		72	0
	80	62		73	0
	81	63		74	0
	82	64		75	0
	83	65		76	0
	84	66		77	0
	85	67		78	0
	86	68		79	0
	87	69		80	0
	88	70		81	0
	89	71		82	0
	90	72		83	0
	91	73		84	0
	92	74		85	0
	93	75		86	0
	94	76		87	0
	95	77		88	0
	96	78		89	0
	97	79		90	0
	98	80		91	0
	99	81		92	0
	100	82		93	0
	101	83		94	0
	102	84		95	0
	103	85		96	0
	104	86		97	0
	105	87		98	0
	106	88		99	0
	107	89		100	0
	108	90		101	0
	109	91		102	0
	110	92		103	0
	111	93		104	0
	112	94		105	0
	113	95		106	0
	114	96		107	0
	115	97		108	0
	116	98		109	0
	117	99		110	0
	118	100		111	0
	119	101		112	0
	120	102		113	0
	121	103		114	0
	122	104		115	0
	123	105		116	0
	124	106		117	0
	125	107		118	0
	126	108		119	0
	127	109		120	0
	128	110		121	0
	129	111		122	0
	130	112		123	0
	131	113		124	0
	132	114		125	0
	133	115		126	0
	134	116		127	0
	135	117		128	0
	136	118		129	0
	137	119		130	0
	138	120		131	0
	139	121		132	0
	140	122		133	0
	141	123		134	0
	142	124		135	0
	143	125		136	0
	144	126		137	0
	145	127		138	0
	146	128		139	0
	147	129		140	0
	148	130		141	0
	149	131		142	0
	150	132		143	0
	151	133		144	0
	152	134		145	0
	153	135		146	0
	154	136		147	0
	155	137		148	0
	156	138		149	0
	157	139		150	0
	158	140		151	0
	159	141		152	0
	160	142		153	0
	161	143		154	0
	162	144		155	0
	163	145		156	0
	164	146		157	0
	165	147		158	0
	166	148		159	0
	167	149		160	0
	168	150		161	0
	169	151		162	0
	170	152		163	0
	171	153		164	0
	172	154		165	0
	173	155		166	0
	174	156		167	0
	175	157		168	0
	176	158		169	0
	177	159		170	0
	178	160		171	0
	179	161		172	0
	180	162		173	0
	181	163		174	0
	182	164		175	0
	183	165		176	0
	184	166		177	0
	185	167		178	



• A (3/4) BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC1001	1	1.1	4	3.3		51	0.1	
	2	0.9	5	GND		52	0.1	
	3	1.1	6	3.3		53	0	
	4	1.1	7	5.0		54	0.5	
	8	5.0	8	5.0		55	0.3	
	9	5.0	10	5.0		56	0	
	11	5.0	12	5.0		57	0.9	
	13	5.0	14	4.9		58	0.1	
	15	5.0	16	5.0		59	0	
	17	5.0	18	5.0		60	0	
	19	GND	20	0		61	0	
	21	0.7	22	0.3		62	0	
	23	0.3	24	5.0		63	0	
	25	1.8	26	1.8		64	3.6	
	27	1.8	28	1.9		65	4.7	
	29	1.8	30	5.0		66	0	
	31	0	32	GND		67	0	
	33	1.1	34	1.1		68	0	
	35	1.1	36	1.1		69	0	
	37	1.1	38	1.1		70	0	
	39	4.1	40	5.0		71	4.3	
	41	0.9	42	0.9		72	5.0	
	43	1.1	44	1.1		73	4.1	
	45	0.6	46	0		74	0	
	47	0.6	48	1.1		75	2.5	
	49	0	50	5.0		76	4.8	
	51	0	52	0		77	4.9	
	53	0	54	0		78	5.0	
	55	0	56	0		79	5.0	
	57	GND	58	GND		80	5.0	
	59	0	60	GND		81	0	
	61	0	62	5.0		82	4.3	
	63	4.3	64	5.0		83	4.9	
	65	0	66	5.0		84	4.9	
	67	0	68	5.0		85	4.9	
	69	0	70	5.0		86	5.0	
	71	0	72	5.0		87	5.0	
	73	0	74	5.0		88	5.0	
	75	0	76	5.0		89	5.0	
	77	0	78	5.0		90	5.0	
	79	0	80	5.0		91	5.0	
	81	0	82	5.0		92	5.0	
	83	0	84	5.0		93	5.0	
	85	0	86	5.0		94	5.0	
	87	0	88	5.0		95	5.0	
	89	0	90	5.0		96	5.0	
	91	0	92	5.0		97	5.0	
	93	0	94	5.0		98	5.0	
	95	0	96	5.0		99	5.0	
	97	0	98	5.0		100	5.0	
	99	0	100	5.0				

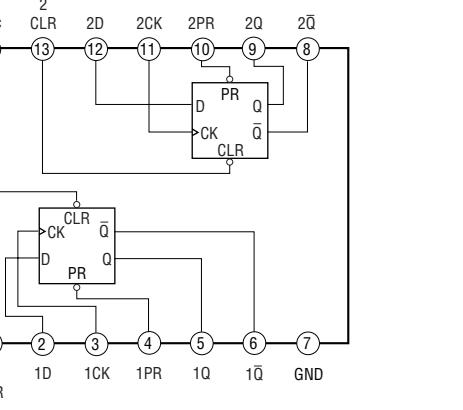
All voltages are in V.

* Pin numbers which are not described are not used.

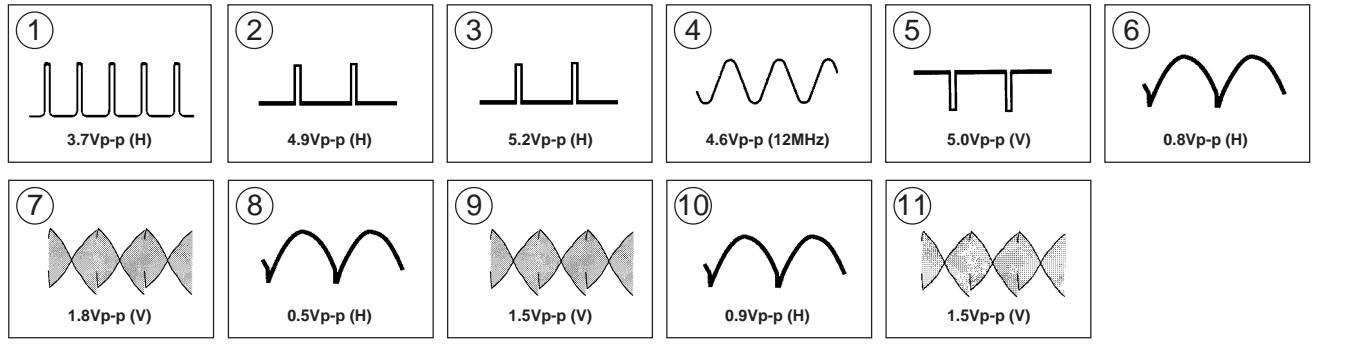
• A (3/4) BOARD TRANSISTOR VOLTAGE LIST

REF.	Vol.	REF.	Vol.
Q1001	B 0	Q1002	C 5.0
	C 0		C 5.0
Q1003	E 0	Q1004	C 4.4
	C 0		C 5.0
Q1006	E 4.4	Q1008	C 5.0
	B 0		C 0
Q1008	E 4.4	Q1009	C 4.7
	B 0		B 0
Q1010	E 4.4	Q1011	C 5.0
	C 0		C 5.0
Q1012	E 0	Q1018	C 5.0
	C 0		C 5.0
Q1020	E 0	Q1022	C 5.0
	C 0		C 5.0

All voltages are in V.



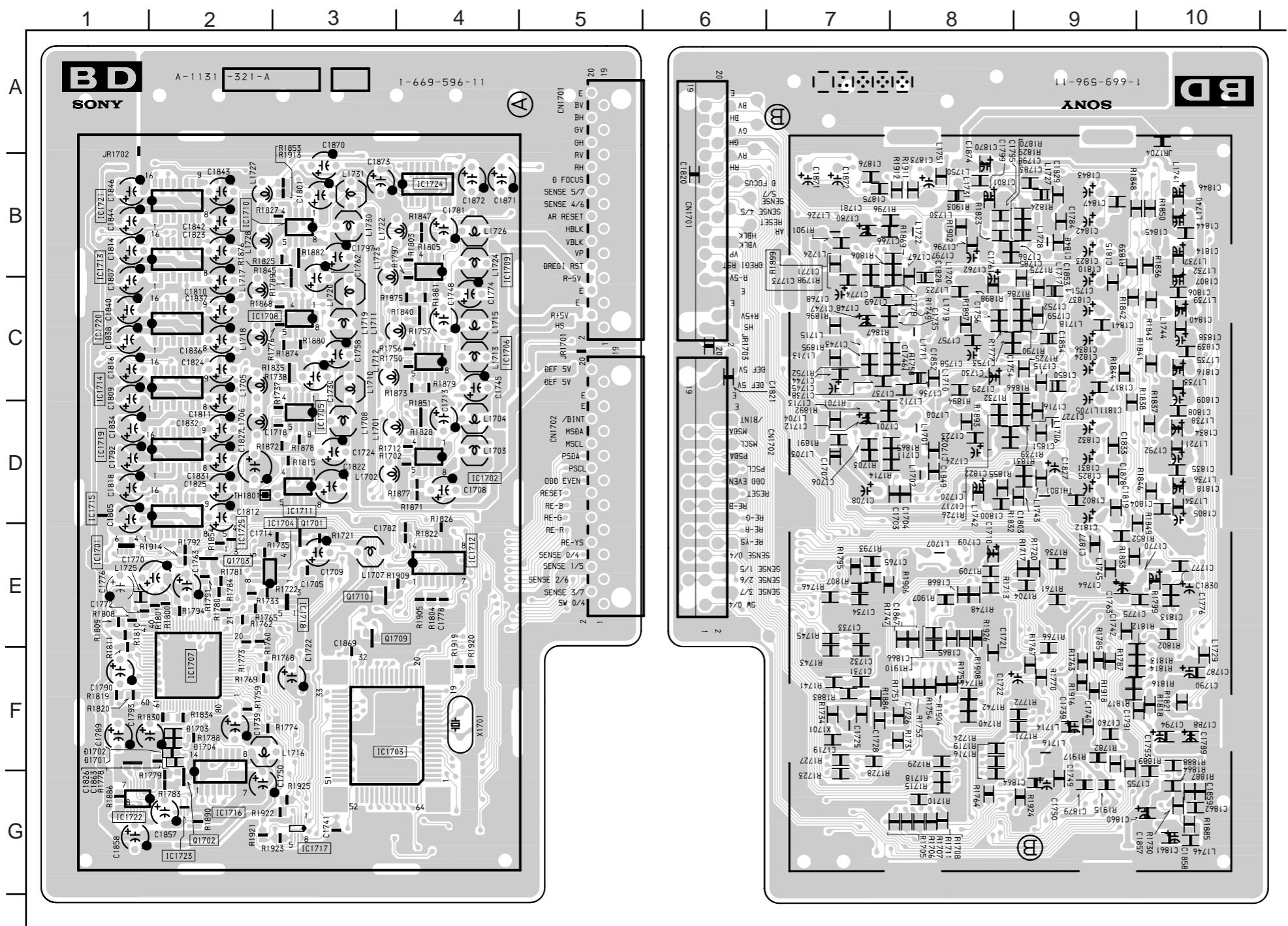
• BD BOARD WAVEFORMS



BD BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC1701	2	2.5	IC1707	2	4.9		8	5.0		5	GND
	3	GND		3	4.9		6	0		6	1.5
	4	2.5		4	*		7	0		7	5.0
	5	B		4	*		8	5.0		8	5.0
IC1702	1	0		5	0		9	2.2			
	2	0.8		6	5.0		10	2.2			
	3	0.7		7	GND		11	1.6			
	4	-5.0		8	0		12	GND			
	5	0		9	4.7		13	2.5			
	6	0		10	5.0		14	2.7			
	7	-0.2		11	0		15	2.4			
	8	5.0		12	5.0		16	2.4			
IC1703	1	5.0		13	*		17	0.7			
	2	5.0		14	*		18	0.4			
	6	4.9		15	0.6		19	5.0			
	7	0.7		16	5.0		20	2.0			
	8	0.3		17	0.7		21	0			
	9	5.0		18	0.4		22	0			
	10	GND		19	5.0		23	0			
	11	2.3		20	5.0		24	0			
	12	2.2		21	0		25	0			
	13	0.8		22	0		26	0			
	14	0.8		23	0		27	5.0			
	15	0.6		24	0		28	2.4			
	16	1.3		25	0.6		29	2.3			
	17	0.8		26	2.5		30	2.5			
	18	0.9		27	2.5		31	5.0			
	19	5.0		28	2.4		32	0.3			
	20	GND		29	5.0		33	GND			
	21	GND		30	5.0		34	0.2			
	22	5.0		31	6.0		35	1.3			
	23	0		32	0		36	1.7			
	24	0		33	0		37	3.3			
	25	0		34	0		38	2.4			
	26	0		35	1.3		39	2.2			
	27	5.0		36	1.7		40	0			
	28	5.0		37	3.3		41	5.0			
	29	5.0		38	2.4		42	GND			
	30	GND		39	5.0		43	4.7			
	31	6.0		40	0		44	4.7			
	32	0		41	1.2		45	4.9			
	33	0		42	10.0		46	4.9			
	34	0		43	0		47	3.1			
	35	0		44	2.7		48	3.5			
	36	0		45	2.6		49	4.9			
	37	2.8		46	2.6		50	3.7			
	38	2.2		47	5.0		51	5.0			
	39	2.2		48	5.0		52	5.0			
	40	5.0		49	5.0		53	5.0			
	41	5.0		50	5.0		54	5.0			
	42	GND		51	5.0		55	5.0			
	43	4.7		52	5.0		56	0			
	44	4.9		53	5.0		57	0			
	45	4.9		54	5.0		58	0			
	46	4.9		55	5.0		59	5.0			
	47	3.1		56	3.1		60	2.4			
	48	3.5		57	0		61	1.9			
	49	4.9		58	0		62	4.7			
	50	3.7		59	0		63	0			
	51	0.1		60	0		64	0			
	52	0.8		61	0		65	0			
	53	0.8		62	0		66	0			
	54	3.6		63	0		67	0			
	55	4.9		64	0		68	0			
	56	4.9		65	0		69	0			
	57	0		66	0		70	0			
	58	0		67	0		71	0			
	59	5.0		68	0		72	0			
	60	1.9		69	0		73	0			
	61	1.9		70	0		74	0			
	62	4.7		71	0		75	0			
	63	0		72	0		76	0			
	64	0		73	0		77	0			
	65	0		74	0		78	0			
	66	0		75	0		79	0			
	67	0		76	0		80	0			
	68	5.0		77	0		81	0			
	69	5.0		78	0		82	0			
	70	0		79	0		83	0			
	71	0		80	0		84	0			
	72	0		81	0		85	0			
	73	1.6		82	1.6		86	1.6			
	74	1.6		83	1.6		87	1.6			
	75	1.6		84	1.6		88	1.6			
	76	0		85	0		89	0			
	77	0		86	0		90	0			
	78	0		87	0		91	0			
	79	0		88	0		92	0			
	80	0		89	0		93	0			
	81	0		90	0		94	0			
	82	0		91	0		95	0			
	83	0		92	0		96	0			
	84	0		93	0		97	0			
	85	0		94	0		98	0			
	86	0		95	0		99	0			
	87	0		96	0		100	0			
	88	0		97	0		101	0			
	89	0		98	0		102	0			
	90</										

- BD Board -



< Component Side >

< Conductor Side >

BD BOARD

DIODE *		
D1701	F-2	(3)
D1702	F-2	(3)
D1703	F-2	(3)
D1704	F-2	(3)

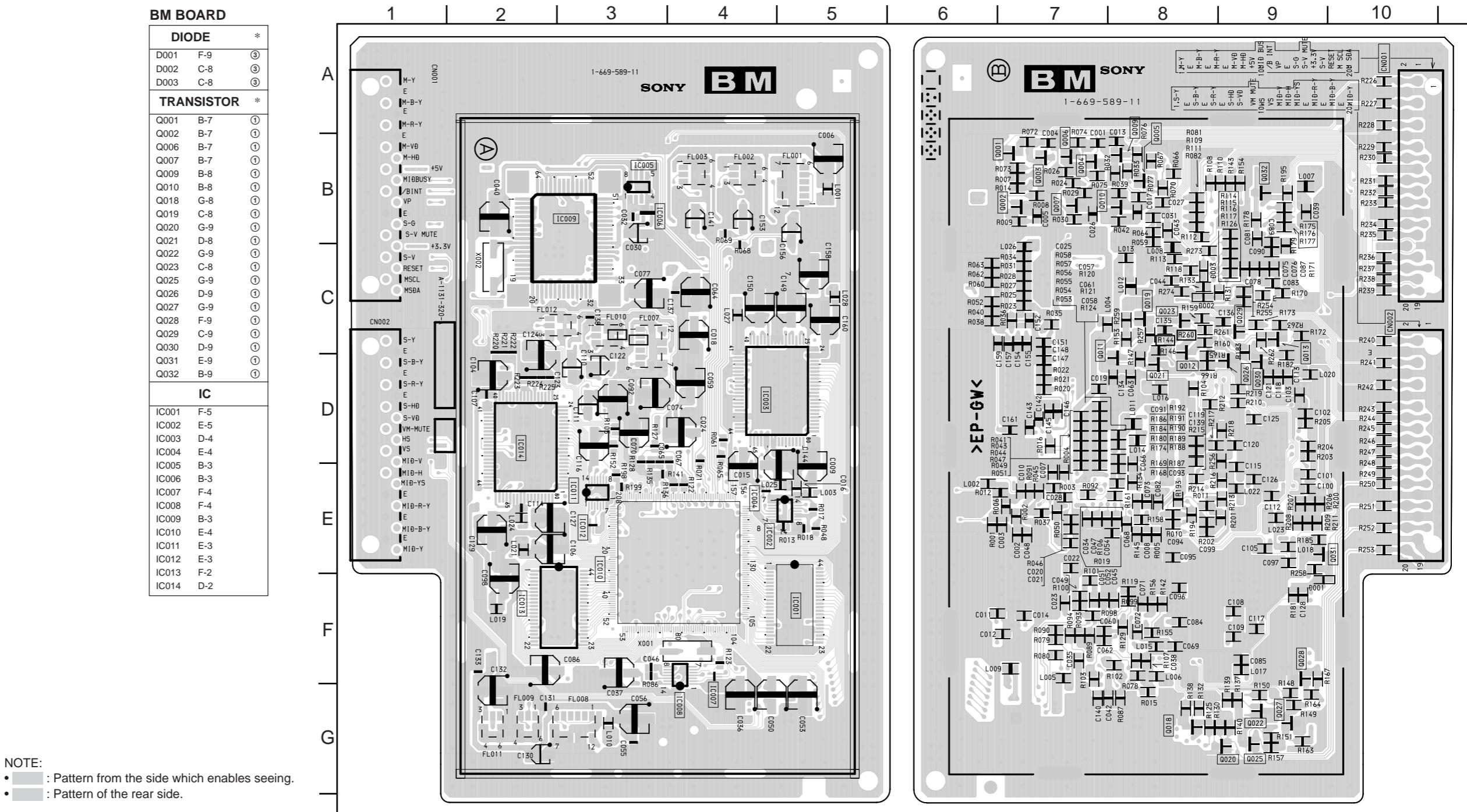
TRANSISTOR *		
Q1701	E-3	(2)
Q1702	G-2	(2)
Q1703	E-2	(2)
Q1709	E-3	(2)
Q1710	E-3	(2)

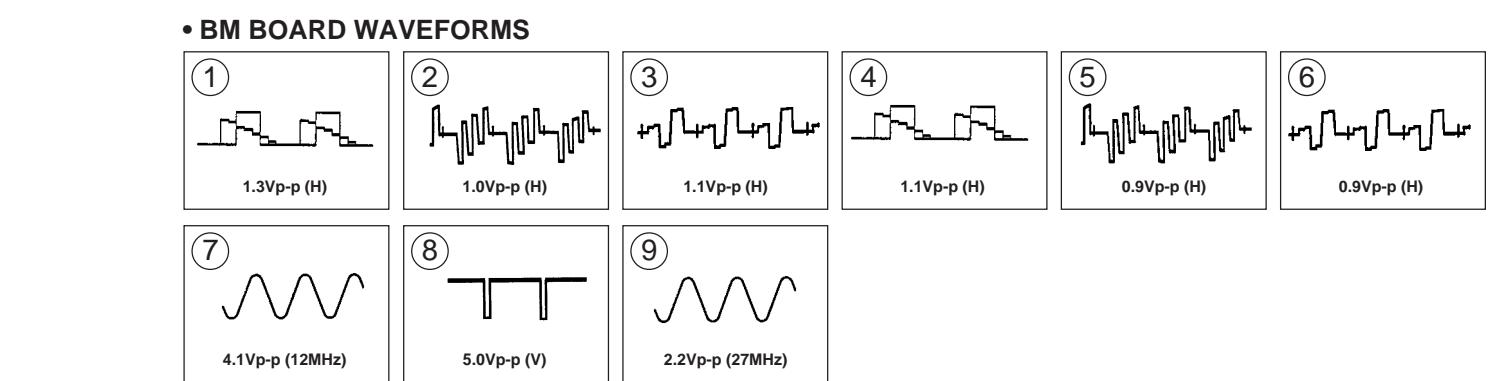
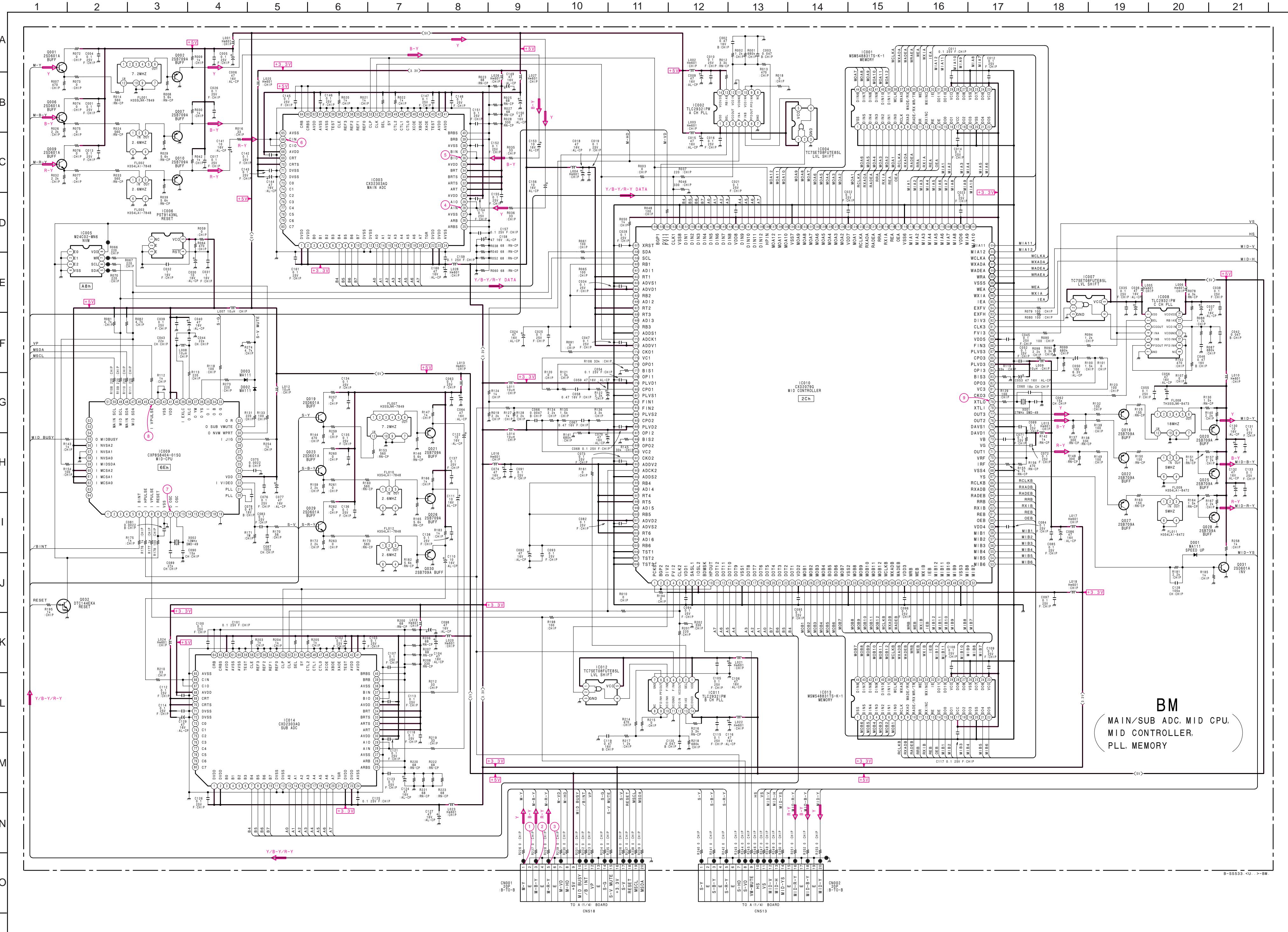
IC		
IC1701	E-1	
IC1702	D-4	
IC1703	F-3	
IC1704	E-2	
IC1705	D-3	
IC1706	C-4	
IC1707	F-2	
IC1708	C-3	
IC1709	B-4	
IC1710	B-3	
IC1711	D-3	
IC1712	E-4	
IC1713	B-2	
IC1714	C-2	
IC1715	D-2	
IC1716	G-2	
C1718	E-3	
IC1719	D-2	
IC1720	C-2	
IC1721	B-2	
IC1722	G-1	
IC1723	G-2	
IC1724	B-4	
IC1725	E-2	

NOTE:

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

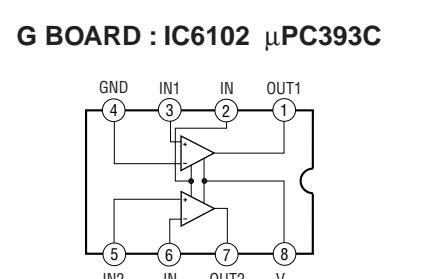
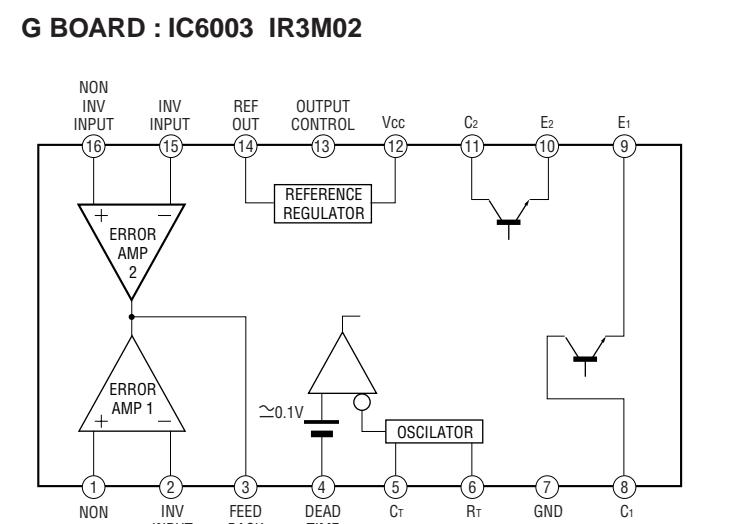
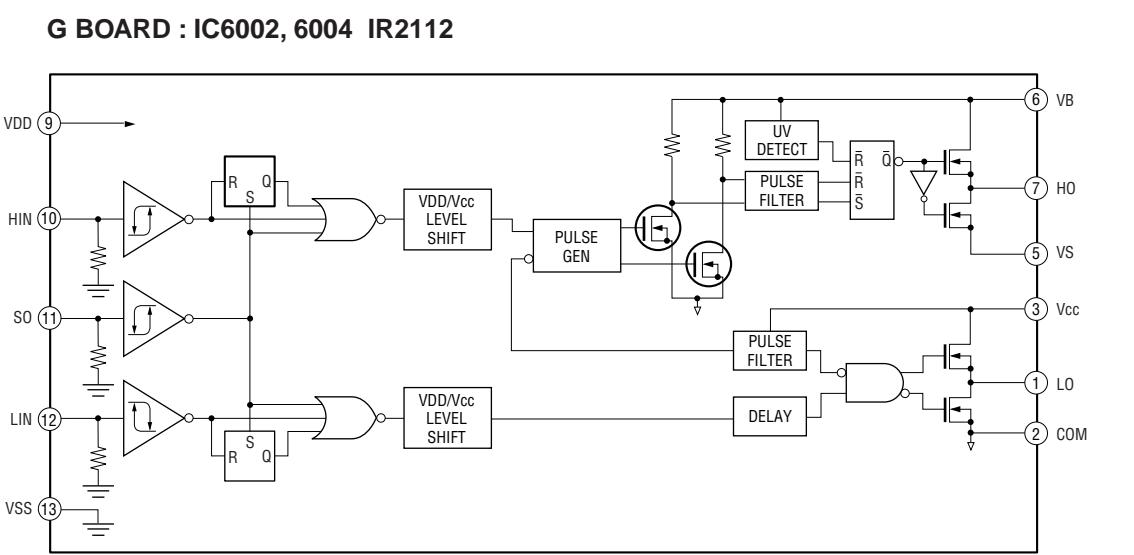
- BM Board -





BM BOARD IC VOLTAGE LIST

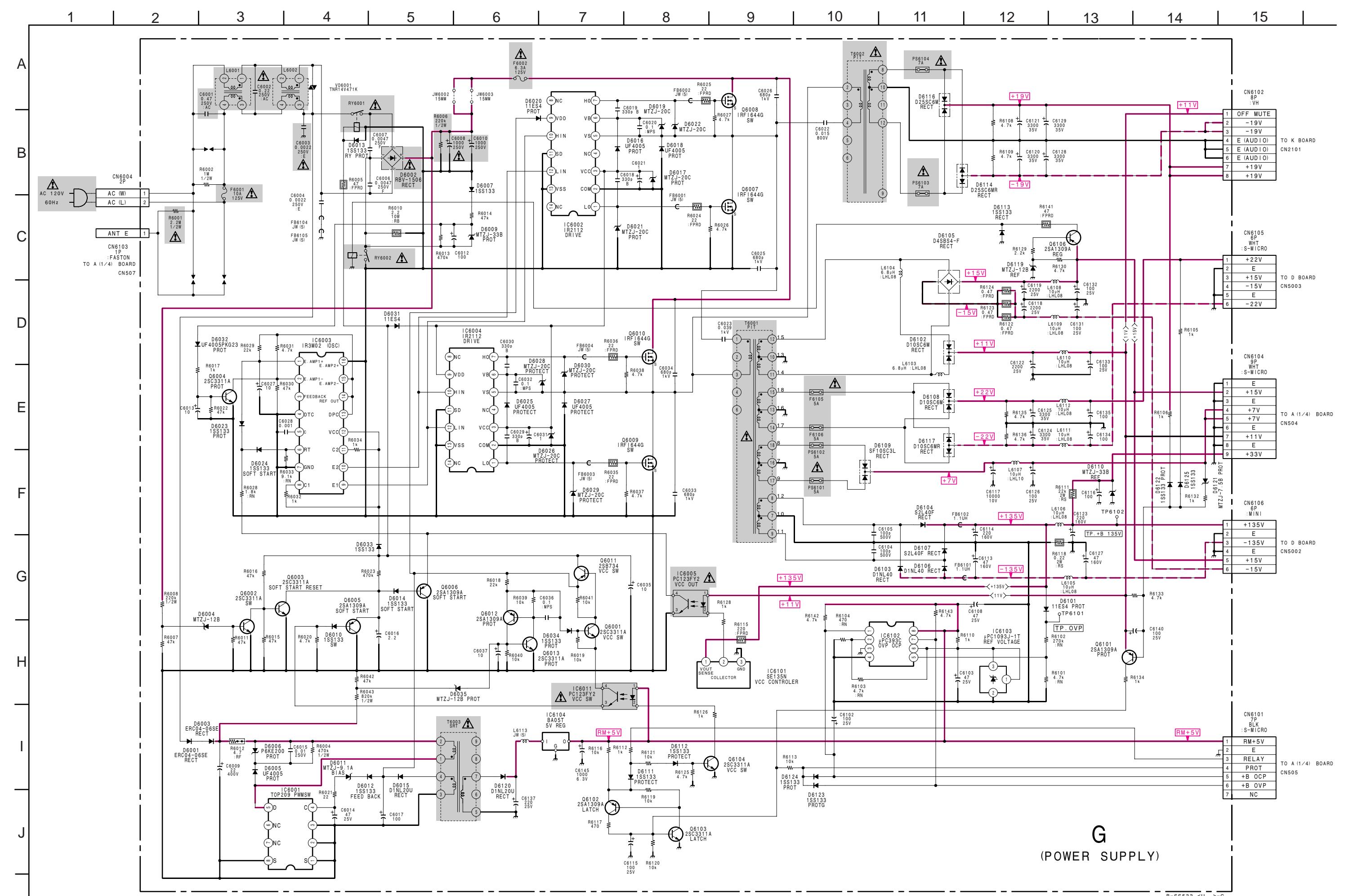
REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	
IC001	1	GND	38	GND	39	5.0	72	2.1	161	2.0	24	2.2
	2	0	39	1.6	40	5.0	73	0.8	162	3.3	25	2.2
	3	0	40	1.6	41	5.0	74	3.3	163	GND	26	GND
	4	0	41	5.0	42	GND	164	3.3	27	0	28	0
	5	0	42	5.0	43	GND	165	1.6				
	6	0	43	4.7	44	GND	166	2.4				
	7	0	44	4.8	45	GND	167	3.3				
	8	4.5	45	3.5	46	GND	168	3.3	31	0		
	9	0	46	4.9	47	GND	169	2.4	32	3.3		
	10	0	47	3.7	48	GND	170	1.6	33	0		
	11	0	48	4.9	49	0.1	171	GND	34	0		
	12	0	49	5.0	50	0.1	172	1.2	35	0		
	13	0	50	3.3	51	0	173	5.0	36	0		
	14	3.3	51	4.9	52	1.3	174	3.3	37	0		
	15	0	52	4.8	53	0	175	0.4	38	1.5		
	16	1.7	53	3.3	54	0	176	0.3	39	0		
	17	3.3	54	5.0	55	0.3	177	2.5	40	0		
	18	0	55	4.9	56	0.3	178	0.3	41	0		
	19	1.7	56	5.0	57	0	179	3.3	42	0		
	20	GND	57	GND	58	0.1	180	0.3	43	0		
	21	1.7	58	4.9	59	0.1	181	GND	44	0		
	22	0	59	5.0	60	0.3	182	0.7	1	3.3		
	23	3.3	60	GND	61	0.3	183	2.5	2	3.3		
	24	0	61	5.0	62	0.3	184	5.0	3	5.0		
	25	0	62	5.0	63	0	185	0	4	5.0		
	26	GND	63	1.6	64	0	186	0	5	4.0		
	27	0	64	1.6	65	0	187	0.2	6	1.3		
	28	0	65	GND	66	2.5	188	0.2	7	0.9		
	29	3.3	66	2.5	67	2.5	189	0.2	10	0.8		
	30	0	67	2.5	68	5.0	190	0.3	11	GND		
	31	0	68	5.0	69	3.3	191	0.3	12	GND		
	32	3.3	69	3.3	70	3.3	192	0.3	13	1.0		
	33	0	70	3.3	71	GND	193	1.3	14	1.0		
	34	0	71	GND	72	GND	194	GND	15	0.6		
	35	0	72	GND	73	0.9	195	0.3	16	0.8		
	36	0	73	0.9	74	0	196	0	17	0.9		
	37	0	74	0	75	0.9	197	3.3	18	0.4		
	38	1.5	75	GND	76	0.8	198	3.3	19	0.9		
	39	0	76	0.8	77	0	199	0	20	0.4		
	40	0	77	0	78	0	200	3.3	21	0.3		
	41	5.0	78	0	79	0	201	3.3	22	0		
	42	0	79	0	80	0	202	GND	23	0		
	43	0	80	0	81	0	203	3.3	24	1.6		
	44	0	81	0	82	0	204	0	25	1.8		
	45	3.4	82	0	83	0	205	3.3	26	1.6		
	46	4.0	83	0	84	0	206	GND	27	GND		
	47	4.4	84	0	85	0	207	GND	28	3.3		
	48	4.9	85	0	86	0	208	GND	29	3.2		
	49	5.0	86	0	87	0	209	GND	30	2.2		
	50	5.0	87	0	88	0	210	GND	31	3.3		
	51	5.0	88	0	89	0	211	0	32	3.3		
	52	5.0	89	0	90	0	212	0	33	3.3		
	53	5.0	90	0	91	0	213	0	34	3.3		
	54	5.0	91	0	92	0	214	0	35	5.0		
	55	5.0	92	0	93	0	215	0	36	5.0		
	56	5.0	93	0	94	0	216	0	37	5.0		
	57	5.0	94	0	95	0	217	0	38	5.0		
	58	5.0	95	0	96	0	218	0	39	5.0		
	59	5.0	96	0	97	0	219	0	40	5.0		
	60	5.0	97	0	98	0	220	0	41	5.0		
	61	5.0	98	0	99	0	221	0	42	5.0		
	62	5.0	99	0	100	0	222	0	43	5.0		
	63	5.0	100	0	101	0	223	0	44	5.0		
	64	5.0	101	0	102	0	224	0	45	5.0		
	65	5.0	102	0	103	0	225	0	46	5.0		
	66	5.0	103	0	104	0	226	0	47	5.0		
	67	5.0	104	0	105	0	227	0	48	5.0		
	68	5.0	105	0	106	0	228	0	49	5.0		
	69	5.0	106	0	107	0	229	0	50	5.0		
	70	5.0	107	0	108	0	230	0	51	4.9		
	71	5.0	108	0	109	0	231	0	52	4.9		
	72	5.0	109	0	110	0	232	0	53	3.3		
	73	5.0	110	0	111	0	233	0	54	5.0		
	74	5.0	111	0	112	0	234	0	55	5.0		
	75	5.0	112	0	113	0	235	0	56	5.0		
	76	5.0	113	0	114	0	236	0	57	5.0		
	77	5.0	114	0	115	0	237	0	58	5.0		
	78	5.0	115	0	116	0	238	0	59	5.0		
	79	5.0	116	0	117	0	239	0	60	5.0		



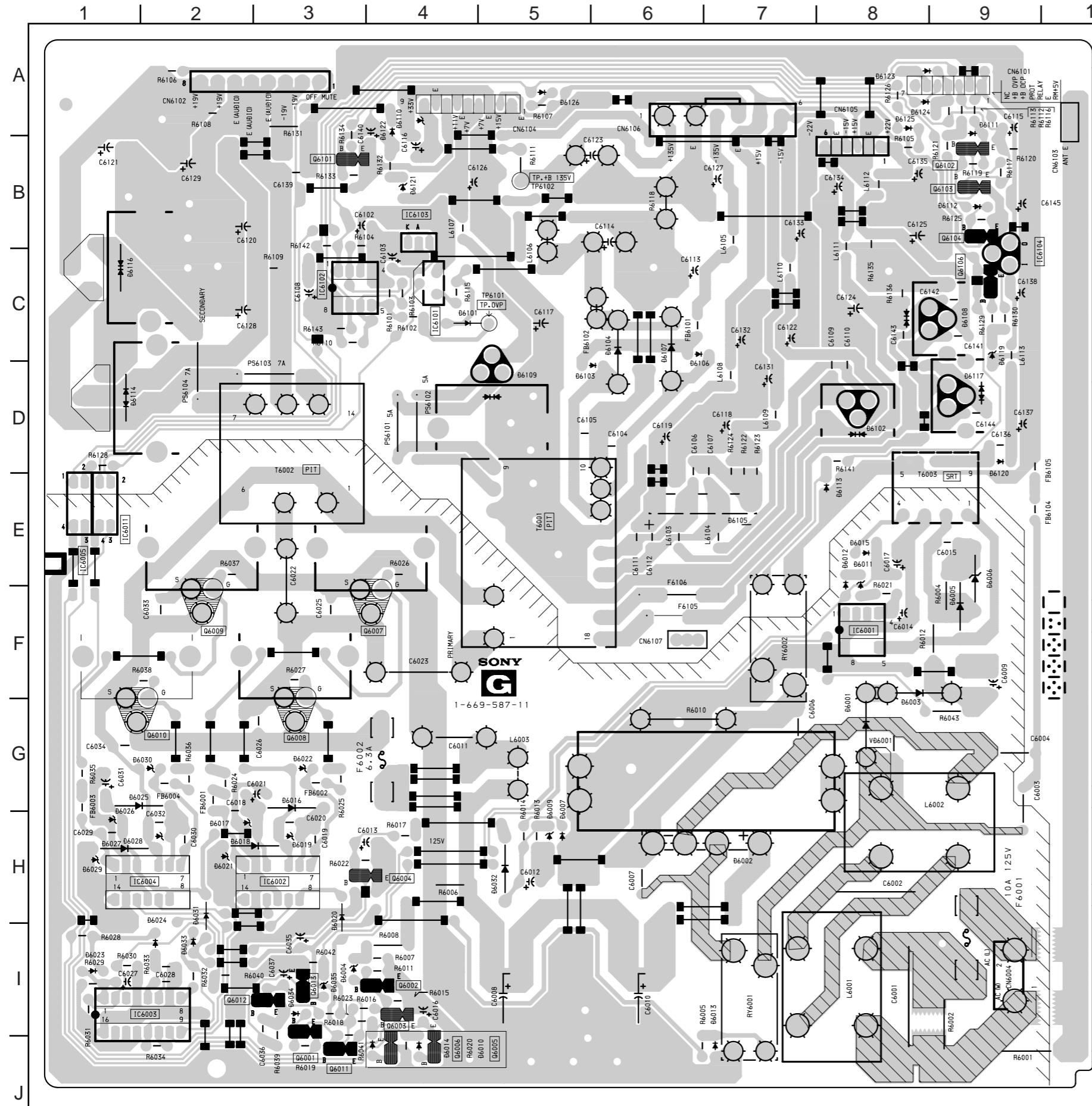
BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.
IC6001	1	GND	●Q6001
	2	GND	
	3	GND	Q6002
	4	5.8	
	5	134.3	
	8	GND	
IC6002	1	6.0	●Q6003
	2	GND	
	3	14.3	
	5	70.3	●Q6004
	6	86.9	
	7	78.8	
	9	14.6	●Q6005
	10	6.1	
	11	GND	
	12	6.1	●Q6006
	13	GND	
IC6003	1	3.6	
	2	4.6	●Q6007
	4	GND	
	5	1.6	
	6	3.7	●Q6008
	7	GND	
	9	6.0	
	10	6.1	●Q6009
	11	14.2	
	12	14.2	
	13	5.0	●Q6010
	14	5.0	
	15	5.0	
	16	GND	
IC6004	1	6.0	●Q6011
	2	GND	
	3	14.3	
	5	72.4	●Q6012
	6	86.2	
	7	78.1	
	9	14.3	●Q6013
	10	6.1	
	11	GND	
	12	6.1	
	13	GND	
C6005	1	12.2	
	2	11.1	
	●3	2.8	
	●4	GND	
C6011	1	5.0	
	2	3.9	
	●3	12.3	Q6101
	●4	12.1	
C6101	1	134.8	
	2	10.6	
	3	GND	
C6102	1	0	
	2	0.2	
	3	GND	Q6102
	4	GND	
	5	2.2	
	6	2.4	
	7	0	Q6103
	8	5.0	
C6103	1	2.4	
	2	GND	
	3	2.4	
C6104	I	7.5	Q6104
	G	GND	
	O	5.0	

The figures in the parenthesis are voltage difference from primary side ground.



G
(POWER SUPPLY)



G BOARD

DIODE	
D6001	G-8
D6002	H-7
D6003	H-8
D6004	I-3
D6005	F-9
D6006	E-9
D6007	H-5
D6009	H-5
D6100	J-4
D6110	E-8
D6112	E-8
D6123	A-8
D6124	A-8
D6110	A-4
D6111	A-9
D6112	B-9
D6113	E-8
D6114	D-1
D6116	C-1
D6117	D-9
D6119	C-9
D6120	D-9
D6121	B-4
D6122	A-4
D6123	A-8
D6124	A-8

TRANSISTOR	
Q6001	I-3
Q6002	I-4
Q6003	I-4
Q6004	H-3
Q6005	J-4
Q6006	J-4
Q6008	G-3
Q6009	F-2
Q6010	G-1
Q6011	J-3
Q6012	I-3
Q6013	I-3
Q6101	B-3
Q6102	B-9
Q6103	H-1
Q6104	B-9
Q6105	B-9
Q6106	C-9

IC	
IC6001	F-8
IC6002	H-2
IC6003	I-2
IC6004	H-2
IC6005	E-1
IC6011	E-1
IC6101	C-4
IC6102	C-3
IC6103	B-4
IC6104	C-9

BR (1/2)[UP CONVERTER, TBC,
3CH 8BIT A/D CONVERTER, PLL]**BR (2/2)**

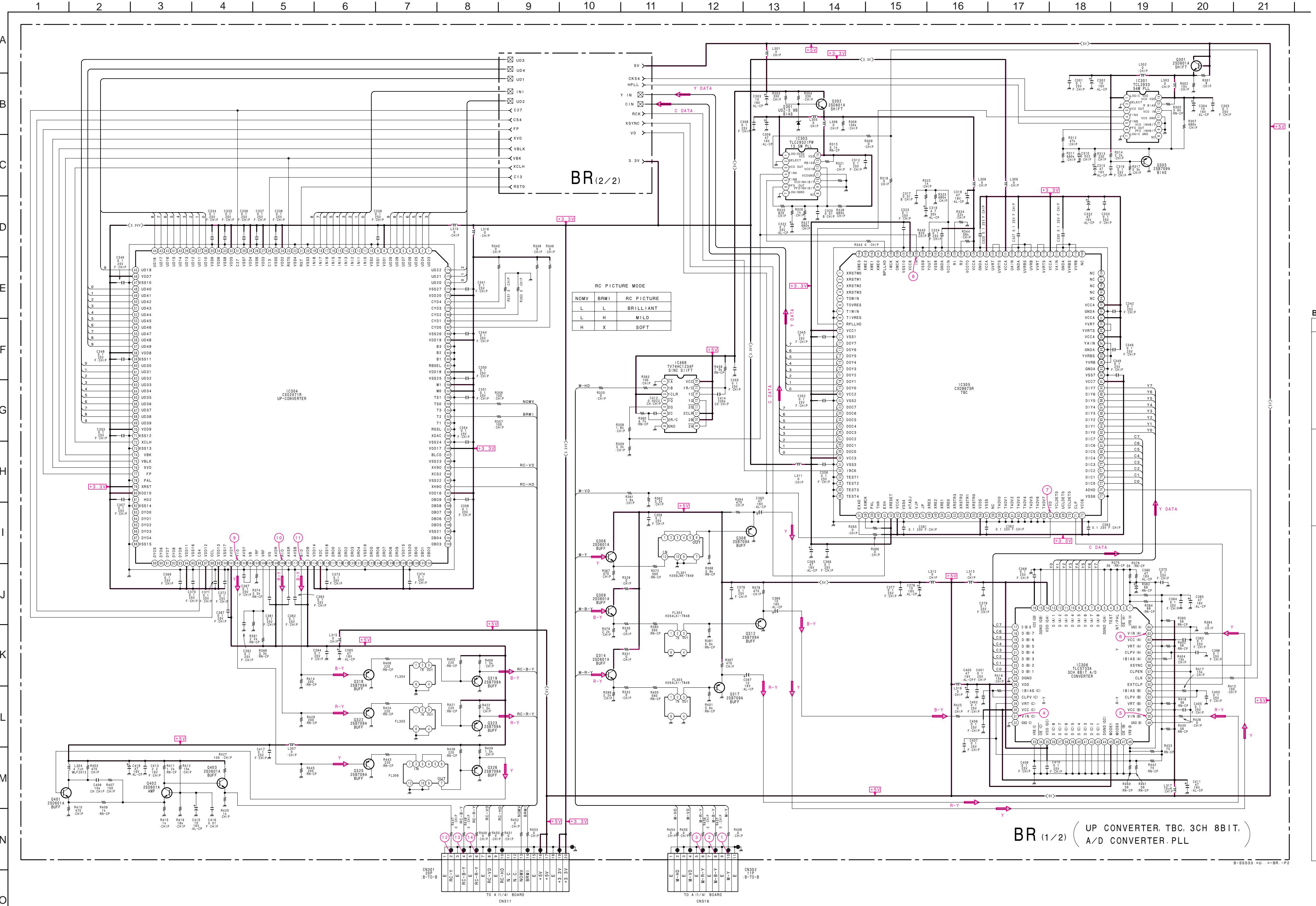
[UP CONVERTER, 1MB MEMORY]

- BR Board -**BR BOARD**

DIODE *		
D301	F-7	(⑨)
Q302	F-7	(①)
Q303	C-9	(①)
Q306	C-9	(①)
Q308	C-9	(①)
Q309	B-9	(①)
Q312	C-9	(①)
Q314	B-8	(①)
Q317	B-8	(①)
Q318	A-8	(①)
Q319	B-9	(①)
Q322	A-8	(①)
Q323	A-9	(①)
Q325	A-8	(①)
Q326	A-9	(①)
Q401	A-9	(①)
Q402	B-9	(①)
Q403	B-9	(①)
TRANSISTOR *		
Q301	D-9	(①)
Q302	F-7	(①)
Q303	C-9	(①)
Q306	C-9	(①)
Q308	C-9	(①)
Q309	B-9	(①)
Q312	C-9	(①)
Q314	B-8	(①)
Q317	B-8	(①)
Q318	A-8	(①)
Q319	B-9	(①)
Q322	A-8	(①)
Q323	A-9	(①)
Q325	A-8	(①)
Q326	A-9	(①)
Q401	A-9	(①)
Q402	B-9	(①)
Q403	B-9	(①)
IC		
IC301	D-2	
IC303	F-3	
IC304	B-4	
IC305	F-2	
IC306	E-2	
IC460	D-5	
IC461	E-5	
IC462	E-4	
IC463	C-4	
IC464	F-4	
IC465	F-4	
IC466	F-4	

**NOTE:**

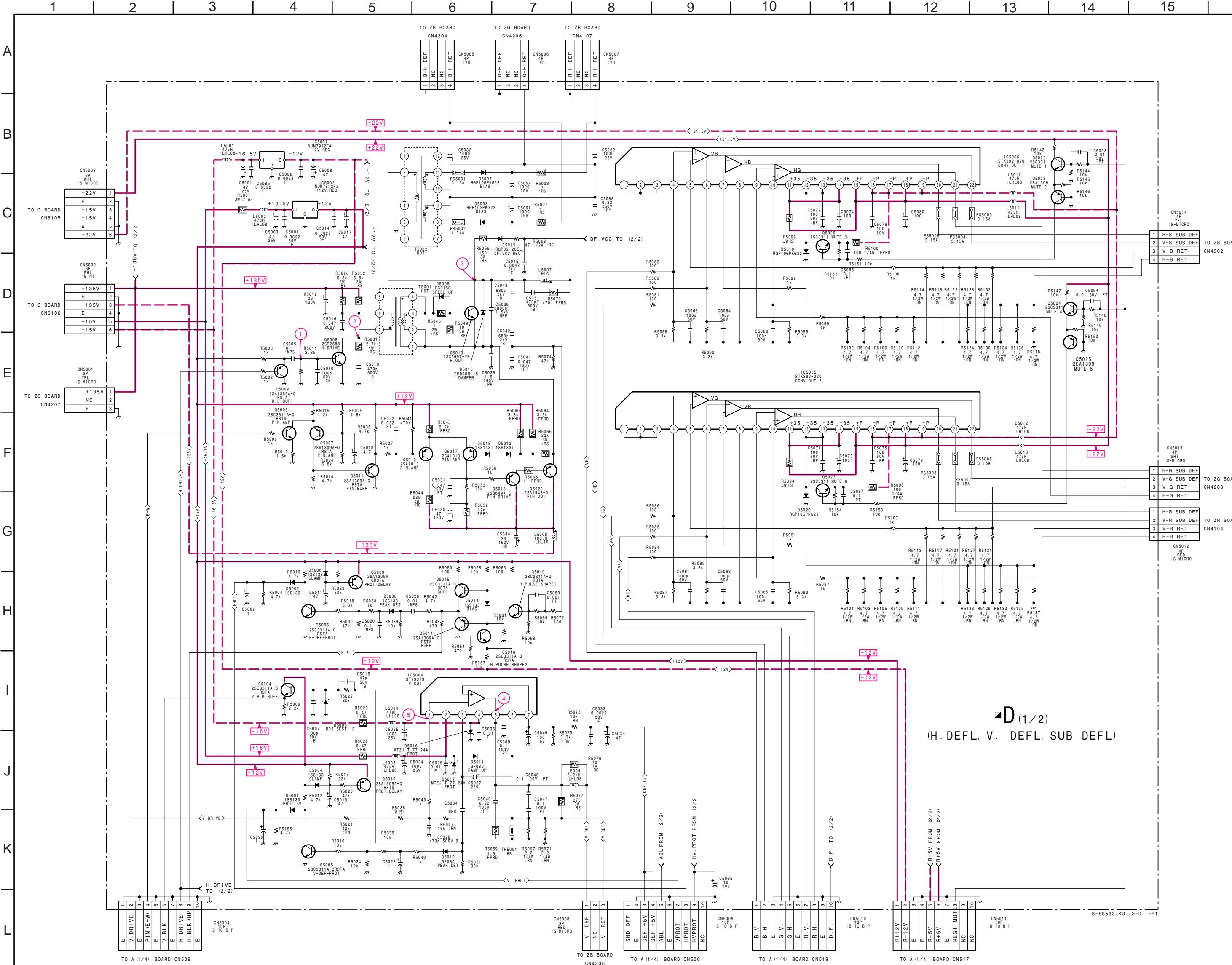
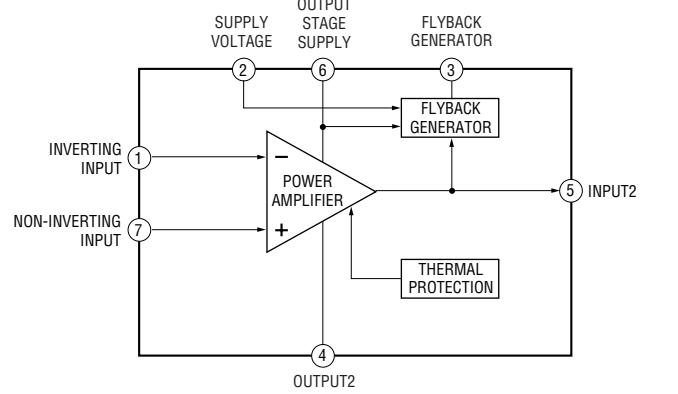
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



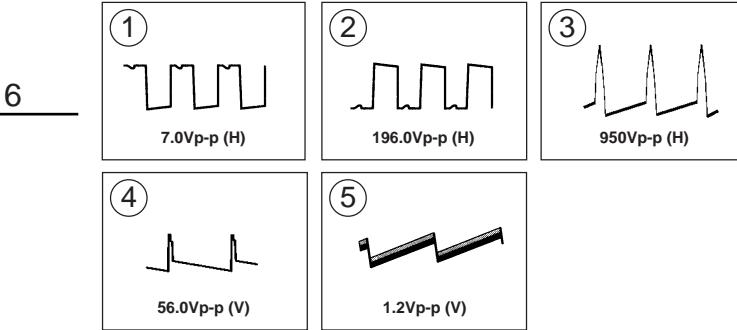
BR (2/2) BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	
IC460	1	GND		60	GND		144	3.3		18	0	101	1.6	183	3.3
	2	GND		61	GND		145	1.7		19	0	102	1.0	184	0
	4	1.7		62	3.3		146	1.8		20	0	103	1.0	185	3.3
	6	GND		63	GND		147	0.1		21	0	104	GND	186	0.1
	8	1.8		64	GND		148	0.1		22	0	105	GND	187	1.4
	10	GND		65	GND		149	3.3		23	3.3	106	GND	188	1.8
	11	GND		66	GND		150	0		24	0.1	107	GND	189	CND
	12	1.8		67	3.4		151	0		25	1.4	108	0.8	190	1.7
	13	GND		70	GND		152	0		26	GND	109	0.5	191	0
	15	GND		71	1.7		153	GND		27	3.3	110	0.9	192	0
	16	1.8		72	1.7		154	1.6		28	1.8	111	1.7	193	0
	17	GND		73	3.3		155	1.8		29	1.7	112	1.6	194	3.3
	19	GND		74	0.2		156	1.4		30	0	113	1.6	195	0.1
	20	5.0		75	0.1		157	0		31	0	114	3.3	196	1.4
IC461	1	GND		76	3.3		158	3.3		32	0	115	1.3	197	1.7
	2	GND		77	GND		159	0		33	3.3	116	1.6	198	1.8
	4	1.8		78	1.9		160	0		34	0	117	1.8	199	0
	6	1.8		79	3.3		161	0		35	1.4	118	1.7	200	GND
	7	1.8		80	1.8		162	3.3		36	1.8	201	3.3		
	8	1.8		81	GND		163	GND		37	1.7	202	0		
	10	GND		82	1.7		164	1.7		38	GND	203	3.3		
	11	GND		83	1.6		165	1.8		39	1.7	204	3.3		
	12	1.8		84	1.6		166	1.4		40	GND	205	3.0		
	13	GND		85	3.3		167	0.1		41	GND	206	1.4		
	14	1.7		86	1.7		168	3.3		42	1.8	207	1.8		
	15	GND		87	GND		169	0		43	3.3	208	1.6		
	16	1.8		88	1.7		170	0		44	GND	209	3.3		
	17	GND		89	3.3		171	0		45	2.3	210	3.3		
	19	GND		90	1.2		172	GND		46	GND	211	3.3		
	20	5.0		91	1.1		173	1.7		47	3.3	212	3.3		
IC462	1	0.2		92	1.2		174	1.8		48	3.3	213	3.3		
	2	GND		93	1.0		175	1.4		49	3.3	214	3.3		
	6	3.3		94	1.1		176	0.1		50	GND	215	3.3		
	8	GND		95	1.1		177	3.3		52	GND	216	3.3		
	10	GND		96	1.0		178	0		53	1.1	217	0.8		
	11	1.2		97	2.3		179	0		54	1.1	218	0.5		
	12	1.1		98	GND		180	0		55	1.1	219	0.8		
	13	1.2		99	1.2		181	3.3		56	1.1	220	0.8		
	14	1.0		100	1.1		182	1.7		57	1.1	221	0.5		
	15	1.2		101	1.1		183	1.8		58	1.1	222	0.8		
	16	1.1		102	1.0		184	1.4		59	1.2	223	1.7		
	17	1.0		103	1.1		185	0.1		60	GND	224	0.6		
	18	2.3		104	1.1		186	3.3		61	3.3	225	1.3		
	19	GND		105	1.0		187	0		62	2.3	226	1.8		
	20	1.7		106	2.3		188	0		63	1.0	227	1.7		
	21	1.8		107	3.3		189	0		64	101	228	1.6		
	22	1.5		108	1.2		190	GND		65	1.1	229	3.3		
	23	0.1		109	1.1		191	1.6		66	1.0	230	GND		
	24	3.3		110	1.1		192	1.8		67	1.1	231	GND		
	25	0.8		111	1.0		193	1.4		68	1.1	232	GND		
	26	0.6		112	1.1		194	0.1		69	1.2	233	GND		
	27	0.8		113	1.1		195	3.3		70	2.3	234	GND		
	28	3.3		114	1.0		196	0		71	1.0	235	0		
	29	1.7		115	2.3		197	0		72	GND	236	1.8		
	30	1.6		116	GND		198	0		73	1.1	237	0.8		
	31	1.5		117	1.7		199	3.3		74	1.1	238	0.5		
	32	0.1		118	1.8		200	GND		75	1.0	239	3.3		
	33	0.8		119	1.4		201	1.7		76	1.2	240	0.1		
	34	0.8		120	0		202	1.7		77	1.1	241	1.4		
	35	0.6		121	3.3		203	1.4		78	1.2	242	1.7		
	36	1.0,1		122	0		204	0.1		79	3.3	243	0		
	37	GND		123	0		205	3.3		80	GND	244	0		
	38	1.7		124	0		206	0		81	1.9	245	0		
	39	1.8		125	3.3		207	0		82	1.4	246	3.3		
	40	1.5		126	GND		208	0		83	1.5	247	3.3		
	41	1.6		127	1.7		209	0		84	1.5	248	0		
	42	3.2		128	1.8		210	0		85	GND	249	3.9		
	43	0.9		129	1.4		211	0		86	1.4	250	0.8		
	44	0.6		130	0.1		212	0		87	1.5	251	0.8		
	45	0.8		131	3.3		213	5		88	1.5	252</td			

D (1/2) BOARD : IC5004 STV9379



• D (1/2) BOARD WAVEFORMS



D (1/2) BOARD
IC VOLTAGE LIST

REF.	Pin No.	VOL.	REF.	VOL.
IC5001	①	-14.8	Q5015	E 0.9
	② GND		C	11.9
	③	-11.8	B	0
IC5002	①	4.6	Q5016	E 0
	② GND		C	10.0
	③	-12.0	B	0.3
IC5003	①	1.3	Q5017	E 4.1
	②	-14.5	C	12.0
IC5004	①	1.5	Q5018	E -104.8
	②	-14.7	B	-105.0
	③	0.5	C	-111.6
Q5005	④	14.5	B	0.6
	⑤	-14.7	C	-136.5
	⑥	0.1	B	0
Q5006	⑦	1.2	C	0
	⑧ GND		B	11.9
	⑨	0.1	C	-110.0
Q5007	⑩	0	B	10.0
	⑪	0	C	-136.5
Q5008	⑫	0	B	-3.0
	⑬	0	C	91.8
Q5009	⑭	0	B	11.9
	⑮	0	C	0.7
Q5010	⑯	0	B	12.0
	⑰	0	C	1.3
Q5011	⑱	0	B	2.1
	⑲	0	C	0.7
Q5012	⑳	0	B	3.7
	㉑	0	C	0.6
Q5013	㉒	0	B	-19.5
	㉓	0	C	-20.2
Q5014	㉔	0	B	0.3
	㉕	0	C	-20.2
Q5015	㉖	0	B	0.8
	㉗	0	C	GND

All voltages are in V.

REF.	MARK	REF.	MARK
R5007	KP-53XB200	R5008	KP-61XB200
R5009	82 3W RS	R5010	39 3W RS
R5011	82 3W RS	R5012	39 3W RS
R5013	330K RN-CP	R5014	39K RN-CP
R5015	470 RN-CP	R5016	1K RN-CP
R5017	1.2K RN-CP	R5018	—
R5019	2.2K RN-CP	R5020	2.2K RN-CP
R5021	6.8K RN-CP	R5022	12K RN-CP
R5023	680 RN-CP	R5024	1K RN-CP

* Pin numbers which are not described are not used.

• D BOARD * MARK LIST

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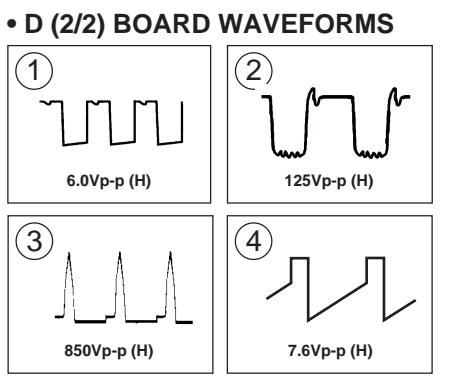
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D (2/2) BOARD IC VOLTAGE LIST

REF. NO.	PIN NO.	VOL.	REF. NO.	PIN NO.	VOL.
IC8001	1	0		3	
	2	0		4	GND
	3	0		5	0
	4	11.8		6	4.8
	5	0.5		7	11.8
	6	0.5		8	11.8
	7	11.6	IC8007	1	0.5
	8	0		2	0.4
	9	0		3	0.4
	10	0		4	11.1
	11	11.8		5	7.4
	12	GND		6	7.4
	13	0		7	7.4
	14	0		8	0.4
	15	1.8		9	7.3
	16	2.8		10	7.3
	17	9.3		11	-11.1
	18	-11.8		12	3.2
	19	11.6		13	3.2
	20	2.1		14	3.2
	21	1.7	IC8008	1	0.1
	22	11.8		2	9.5
IC8003	I	-7.8		3	7.4
O	GND			4	-11.8
	O	-5.0		5	GND
IC8004	I	8.0		6	0.7
G	GND			7	1.6
O	O	5.0		8	11.8
IC8005	1	GND	IC8009	1	7.2
2	0		2	7.1	
3	0		3	4.8	
4	0		4	-11.8	
5	0		8	11.8	
6	0		9	0.2	
8	GND		10	6.0	
9	0		11	3.0	
10	0		12	4.0	
11	1.3		13	5.2	
13	5.0		14	7.1	
14	-5.0		15	0	
15	2		16	11.8	

All voltage are in V.
Pin numbers which are not described are not used.

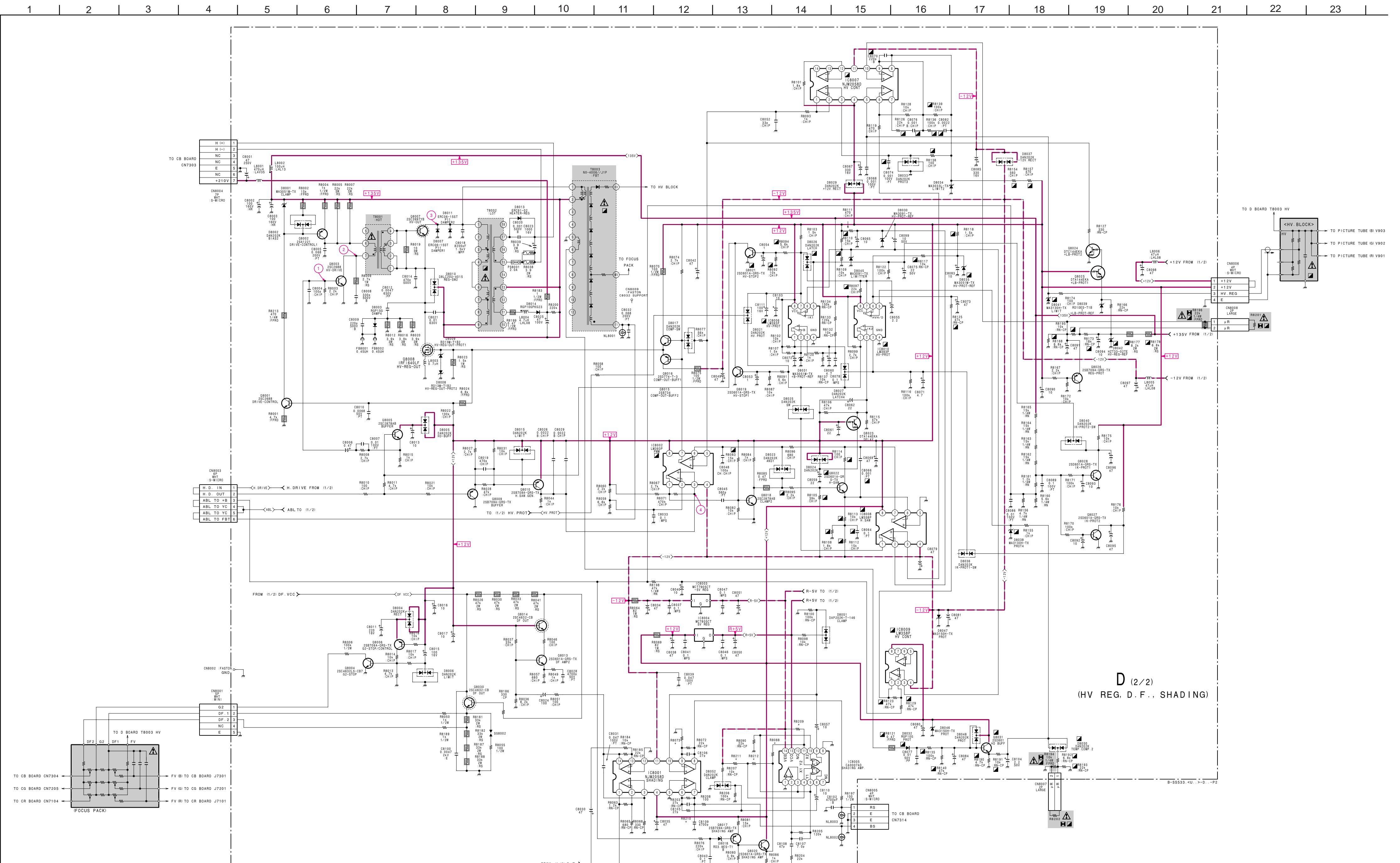
D (2/2) BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.
Q8001	B 2.2	Q8016	B 5.0
	E 1.7		E GND
	C 132.6		C 1.3
	B 132.6		B 0.2
Q8002	E 133.3	Q8019	E GND
	C 62.0		C 4.2
	B -1.9		B 1.9
	E GND	Q8020	E 1.4
	C 61.7		C 11.7
	B 0		B 0.2
Q8003	E GND	Q8021	E GND
	C 455.0		C 4.2
	B 4.2		B 0.4
	E GND	Q8022	E 0.6
	C 11.4		C 1.6
Q8004	E GND	Q8023	E 11.7
	C 5.0		C 6.0
	B 55.9		B 0
Q8005	E 5.0	Q8024	E GND
	C 0		C 0
	B 55.8		B 0
Q8006	E 5.0	Q8025	E 11.8
	C 0		C 0.1
	B 55.8		B 0.6
Q8007	E 55.8	Q8026	E 10.2
	C 136.8		C GND
	B 13.3		B 0.6
Q8008	E 1.6	Q8027	E GND
	S 0.1		C 0.1
	B 123.1		B 0.6
Q8009	E 133.0	Q8028	E GND
	C 0		C 0.1
	B 13.3		B 0.6
Q8010	E 11.7	Q8029	E GND
	C 8.3		C 0.1
	B 5.0		B 0.6
Q8011	E 4.4	Q8030	E GND
	C 11.2		C 0.1
	B 11.8		B 670.0
Q8012	E 11.2	Q8031	E 668.0
	C 67.0		C 845.0
	B 1.6		B 7.9
Q8013	E 1.6	Q8032	E 7.3
	C -11.3		C 11.8
	B 1.7		B 1.6
Q8014	E 1.6	Q8033	E GND
	C 11.1		C 0.1
	B 1.6		B 0.6
Q8015	E 1.6	Q8034	E GND
	C 11.1		C 0.1
	B 3.3		B 0.6
Q8016	E 1.6	Q8035	E GND
	C 11.1		C 0.1
	B 3.3		B 0.6
Q8017	E 4.1	Q8036	E 1.9
	C 1.9		

All voltages are in V.

Schematic diagram
D (2/2) board

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- 145 -

- 146 -

- 147 -

- 148 -

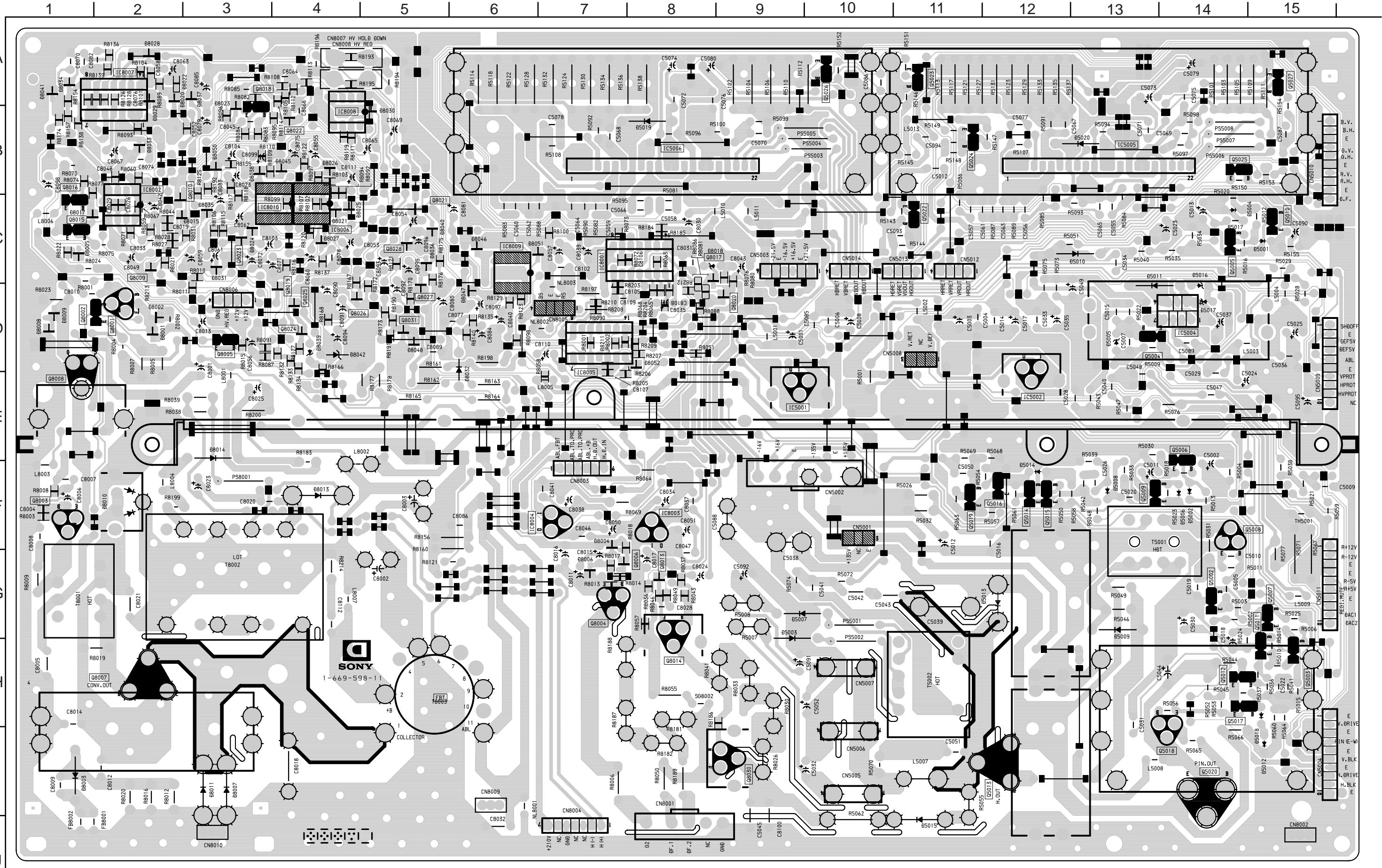
- D Board -

D (1/2)

[H DEF, V DEF, SUB DEF]

D (2/2)

[HV REG, D. F SHADING]



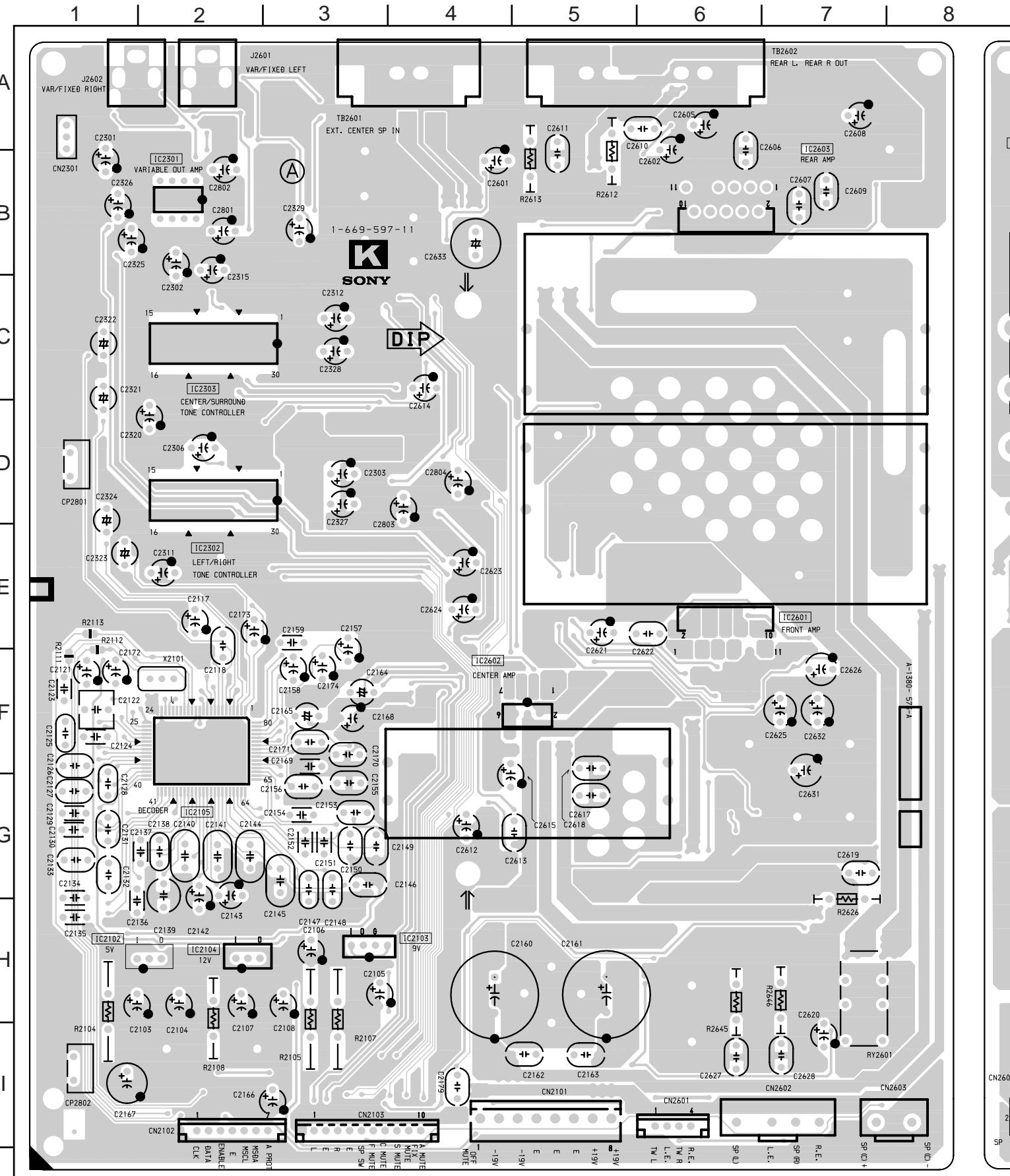
D BOARD

DIODE	
D5001	C-14
Q5006	E-14
Q5007	G-15
Q5008	F-14
Q5009	F-13
D5003	G-9
D5004	C-14
D5005	D-13
D5006	F-14
D5007	G-9
D5008	F-13
D5009	G-13
D5010	C-12
D5011	D-13
D5012	H-14
D5013	I-14
D5014	I-12
D5015	F-12
D5016	F-12
D5017	H-14
D5018	H-13
D5019	G-11
D5020	I-14
D5021	C-11
D5022	A-11
D5023	B-11
D5024	B-14
D5025	C-14
D8001	D-2
D8002	D-2
D8003	I-1
D8004	F-7
D8005	C-1
D8006	G-7
D8007	I-3
D8008	D-1
D8009	G-7
D8010	H-2
D8011	D-1
D8012	C-2
D8013	C-2
D8014	F-4
D8015	G-8
D8016	C-1
D8017	C-8
D8018	C-8
D8019	A-3
D8020	D-4
D8021	C-4
D8022	B-4
D8023	C-3
D8024	D-4
D8025	C-4
D8026	B-4
D8027	C-4
D8028	D-5
D8029	C-3
D8030	D-4
D8031	C-4
D8032	D-6
D8033	B-3
D8034	A-1
D8035	C-3
D8036	C-5
D8037	A-3
D8038	B-3
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D8042	D-4
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D8044	C-6
D8045	B-6
D8046	C-6
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D8050	F-8
D8051	F-7
D8052	D-7
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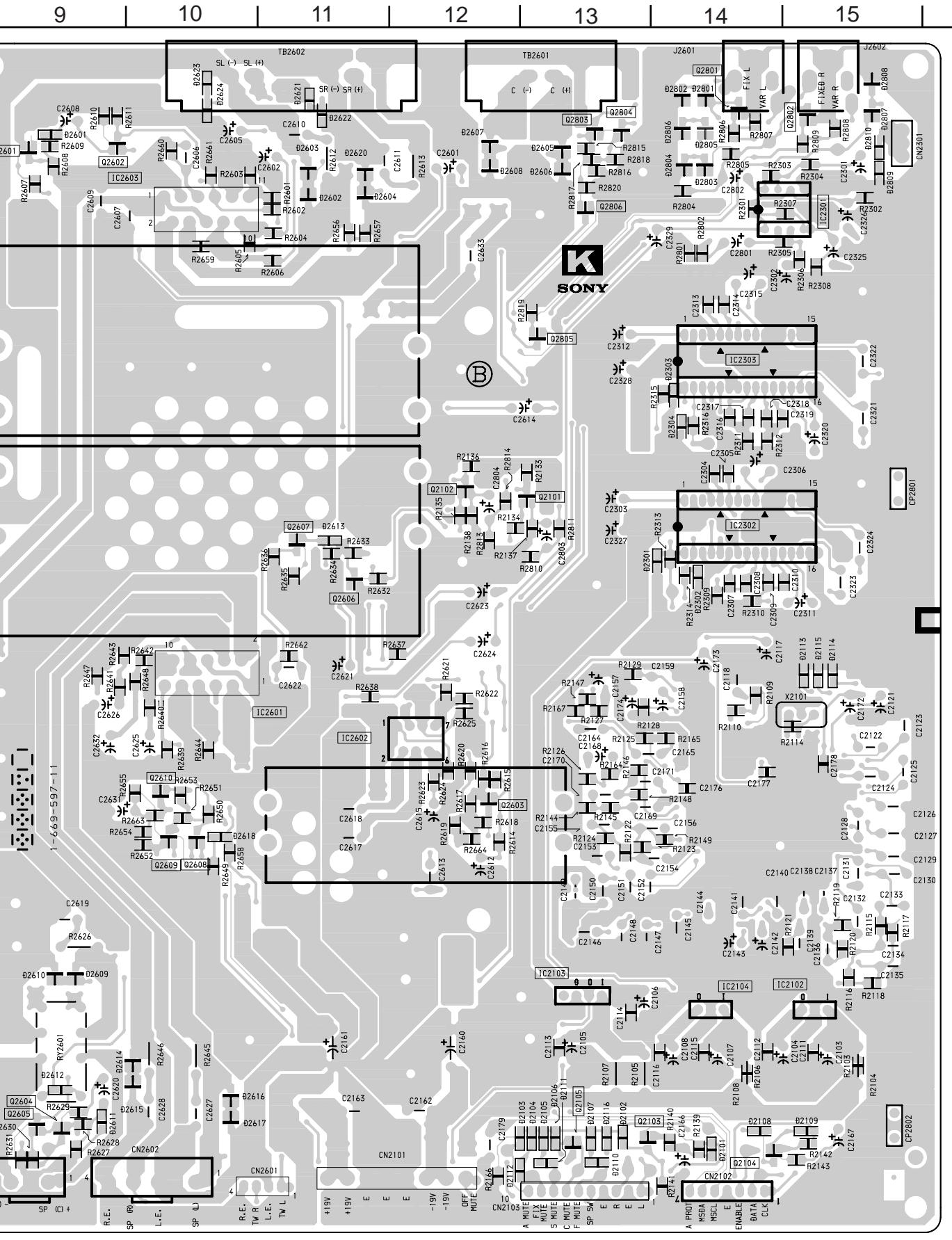
- K Board - [K] [AUDIO AMP, TONE CONTROL,
PROLOGIC DECODER]

K BOARD	
DIODE *	
D2101	I-14
D2102	I-13
D2103	I-12
D2104	I-12
D2105	I-13
D2106	I-13
D2107	I-14
D2108	I-14
D2109	I-15
D2110	I-13
D2111	I-13
D2112	I-12
D2113	E-15
D2114	E-15
D2115	E-15
D2116	I-13
D2601	A-9
D2602	A-9
D2603	F-12
D2604	I-9
D2605	I-9
D2606	E-11
D2607	D-11
D2608	G-16
D2609	G-16
D2610	H-9
D2611	H-9
D2612	I-9
D2613	D-11
D2614	H-9
D2615	I-9
D2616	I-10
D2617	I-10
D2618	G-10
D2620	I-9
D2621	A-11
D2622	A-11
D2623	A-10
D2624	A-10
D2801	A-14
D2802	A-14
TRANSISTOR *	
Q2101	D-12
Q2102	D-12
Q2103	I-13
Q2104	I-14
Q2105	I-13
Q2601	A-9
Q2602	A-9
Q2603	F-12
Q2604	I-9
Q2605	I-9
Q2606	E-11
Q2607	D-11
Q2608	G-16
Q2609	G-16
Q2610	F-10
Q2801	A-14
Q2802	A-15
Q2803	A-13
Q2804	A-13
Q2805	C-13
Q2806	B-13
IC	
IC2102	H-15, H-2
IC2103	H-13, H-3
IC2104	H-14, H-2
IC2105	F-2
IC2301	B-14, B-2
IC2302	D-14, D-2
IC2303	C-14, C-2
IC2601	E-10, E-6
IC2602	F-12, F-5
IC2603	B-10

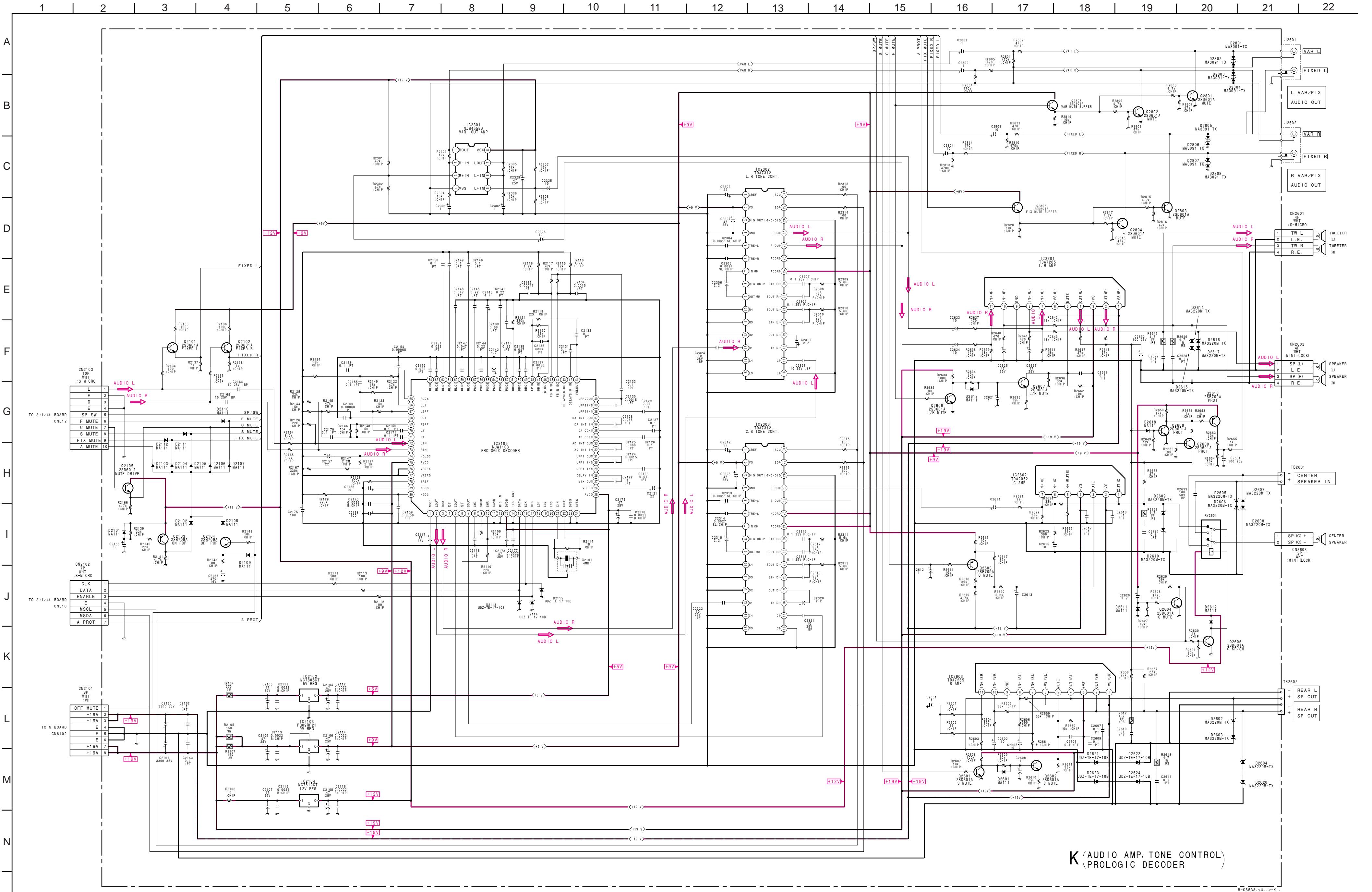
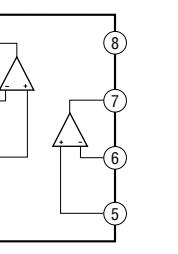
NOTE:
 • : Pattern from the side which enables seeing.
 • : Pattern of the rear side.



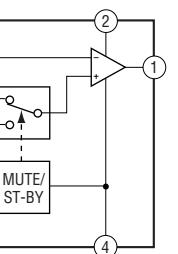
< Component Side >



< Conductor Side >

K (AUDIO AMP, TONE CONTROL)
PROLOGIC DECODER

K BOARD : IC2602 TDA2052

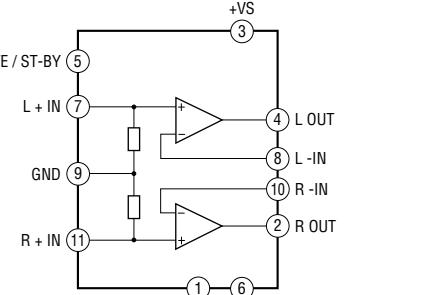


K BOARD IC VOLTAGE LIST

REF.	Pin No.	VOL.	REF.	Pin No.	VOL.	REF.	Pin No.	VOL.
IC2101	I	19.6	33	2.5		73	4.1	
	G	GND	34	2.3		74	4.1	
	O	5.0	35	2.4		75	9.0	
IC2102	I	15.0	36	2.5		76	4.1	
	G	GND	37	2.5		77	4.1	
	O	9.0	38	2.5		78	1.3	
IC2103	I	1.0	39	2.5		79	2.6	
	G	GND	40	2.5		80	4.2	
	O	0.1	41	0		81	12.0	
IC2104	I	19.6	42	4.1		82	6.0	
	G	GND	43	4.1		83	6.0	
	O	11.9	44	4.1		84	4.5	
IC2105	I	4.1	45	4.1		85	12.0	
	G	GND	46	4.1		86	1.3	
	O	0	47	4.1		87	4.4	
Q2101	E	3.5	48	4.1		88	4.1	
	C	8.7	49	4.1		89	4.1	
Q2102	E	3.5	50	4.1		90	4.1	
	C	8.7	51	0.3		91	4.1	
Q2103	E	12.0	52	4.1		92	0.2	
	C	0	53	4.1		93	4.1	
Q2104	E	12.0	54	4.1		94	4.1	
	C	0	55	4.4		95	4.6	
Q2105	E	11.9	56	0		96	4.6	
	C	0	57	4.4		97	4.9	
Q2603	E	12.0	58	5.0		98	4.8	
	C	0	59	4.1		99	4.1	
Q2601	E	12.1	60	4.1		100	4.1	
	C	0	61	4.9		101	4.5	
Q2602	E	12.0	62	4.3		102	4.5	
	C	0	63	4.1		103	4.5	
Q2604	E	12.0	64	4.1		104	4.5	
	C	0	65	4.8		105	4.5	
Q2605	E	12.0	66	0		106	4.5	
	C	0	67	4.1		107	4.5	
Q2606	E	10.9	68	4.1		108	4.5	
	C	0	69	4.1		109	4.5	
Q2607	E	10.3	70	4.1		110	4.5	
	C	0	71	4.1		111	4.5	
Q2608	E	9.0	72	4.1		112	4.5	
	C	0	73	4.1		113	4.5	
Q2609	E	9.0	74	0		114	4.5	
	C	0	75	0		115	4.5	
Q2610	E	9.0	76	0		116	4.5	
	C	0	77	0		117	4.5	
Q2801	E	9.0	78	0		118	4.5	
	C	0	79	0		119	4.5	
Q2802	E	9.0	80	0		120	4.5	
	C	0	81	0		121	4.5	
Q2803	E	9.0	82	0		122	4.5	
	C	0	83	0		123	4.5	
Q2804	E	9.0	84	0		124	4.5	
	C	0	85	0		125	4.5	
Q2805	E	9.0	86	0		126	4.5	
	C	0	87	0		127	4.5	
Q2806	E	9.0	88	0		128	4.5	
	C	0	89	0		129	4.5	

* All voltages are in V.

* Pin numbers which are not described are not used.

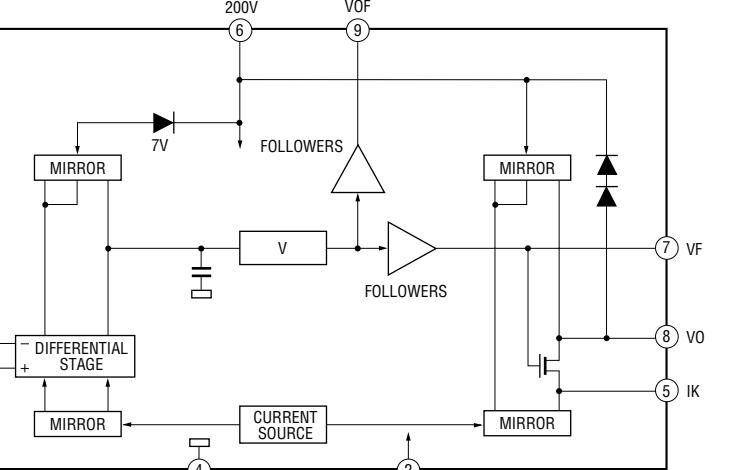


K BOARD TRANSISTOR VOLTAGE LIST

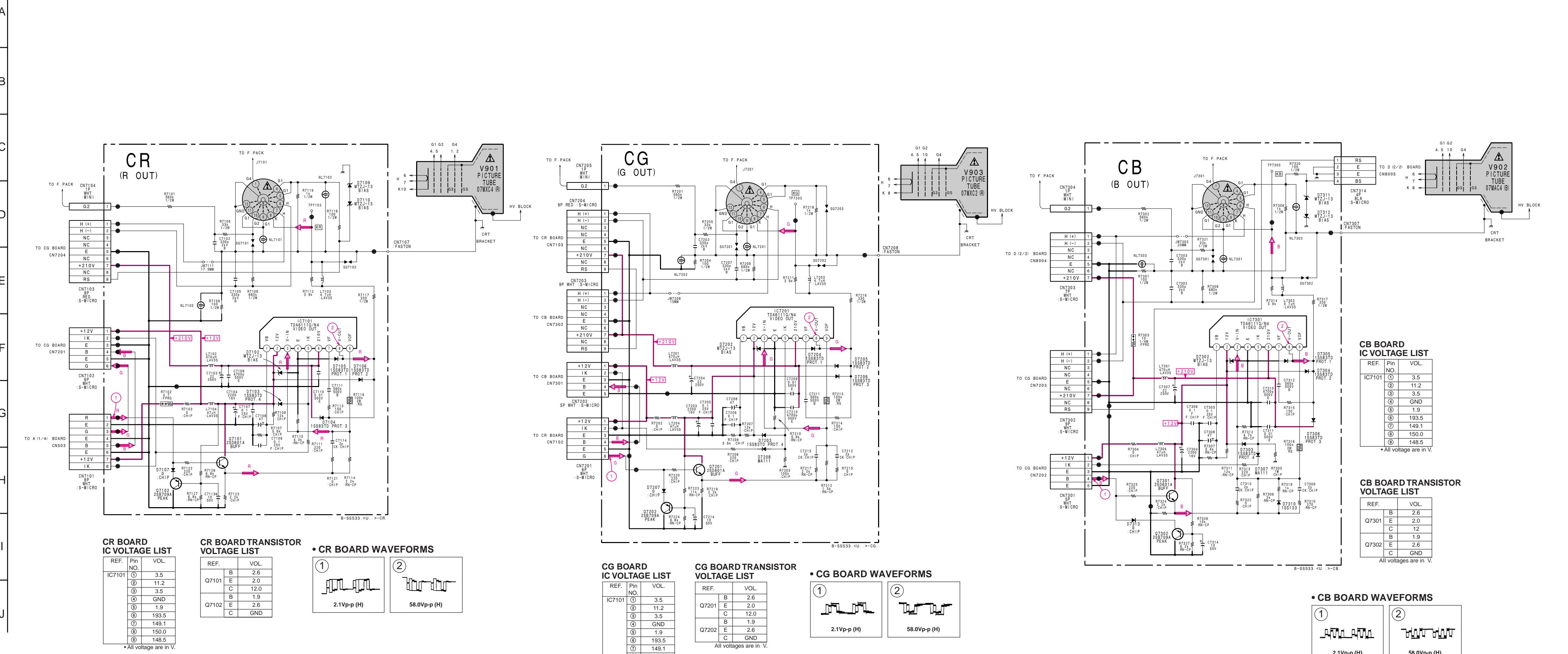
REF.	Vol.	REF.	Vol.
Q2101	B	4.1	
	E	3.5	
	C	8.7	
Q2102	B	4.1	
	E	3.5	
	C	8.7	
Q2103	B	11.9	
	E	0	
	C	0	
Q2104	B	0	
	E	12.0	
	C	0	
Q2105	B	12.0	
	E	0	
	C	0	
Q2603	B	12.0	
	E	0	
	C	0	
Q2601	B	12.1	
	E	0	
	C	0	
Q2602	B	12.1	
	E	0	
	C	0	
Q2604	B	12.0	
	E	0	
	C	0	
Q2605	B	12.0	
	E	0	
	C	0	
Q2606	B	10.9	
	E	0	
	C	0	
Q2607	B	10.3	
	E	0	
	C	0	
Q2608	B	9.0	
	E	0	
	C	0	
Q2609	B	9.0	
	E	0	
	C	0	
Q2610	B	9.0	
	E	0	
	C	0	
Q2801	B	9.0	
	E	0	
	C	0	
Q2802	B	9.0	
	E	0	
	C	0	
Q2803	B	9.0	
	E	0	
	C	0	
Q2804	B	9.0	
	E	0	
	C	0	
Q2805	B	9.0	
	E	0	
	C	0	
Q2806	B	9.0	
	E	0	
	C	0	

All voltages are in V.

CR BOARD : IC7101 TDA6111Q/N4
 CG BOARD : IC7201 TDA6111Q/N4
 CB BOARD : IC7301 TDA6111Q/N4



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23

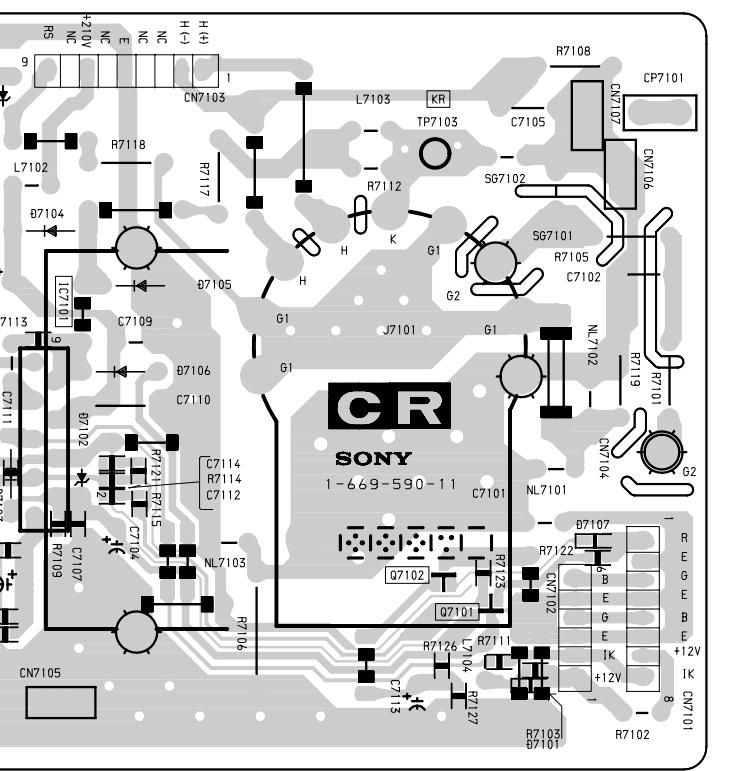


Schematic diagram
K board

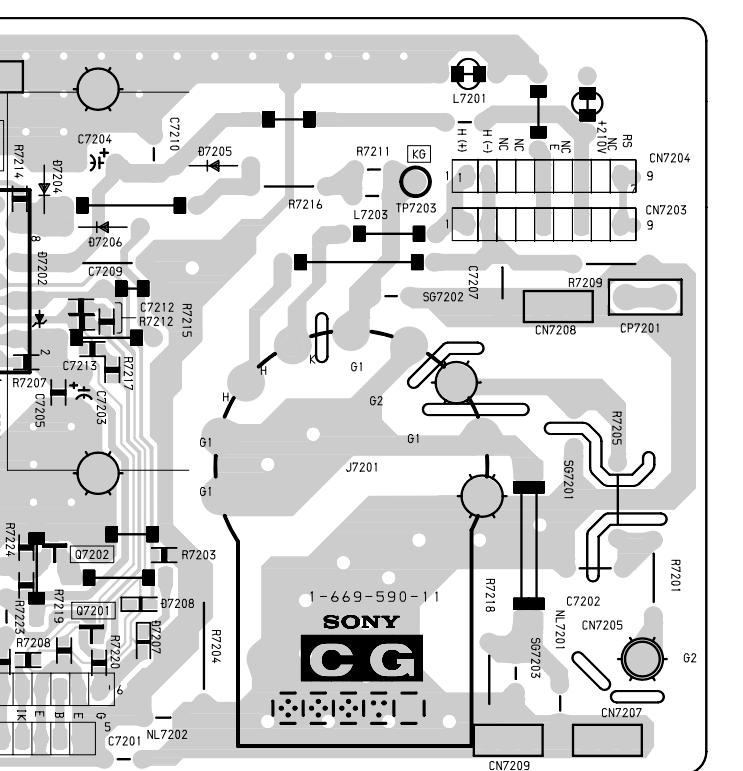
Schematic diagram
[CR] [CG] [CB] board

CR [R OUT] CG [G OUT] CB [B OUT]

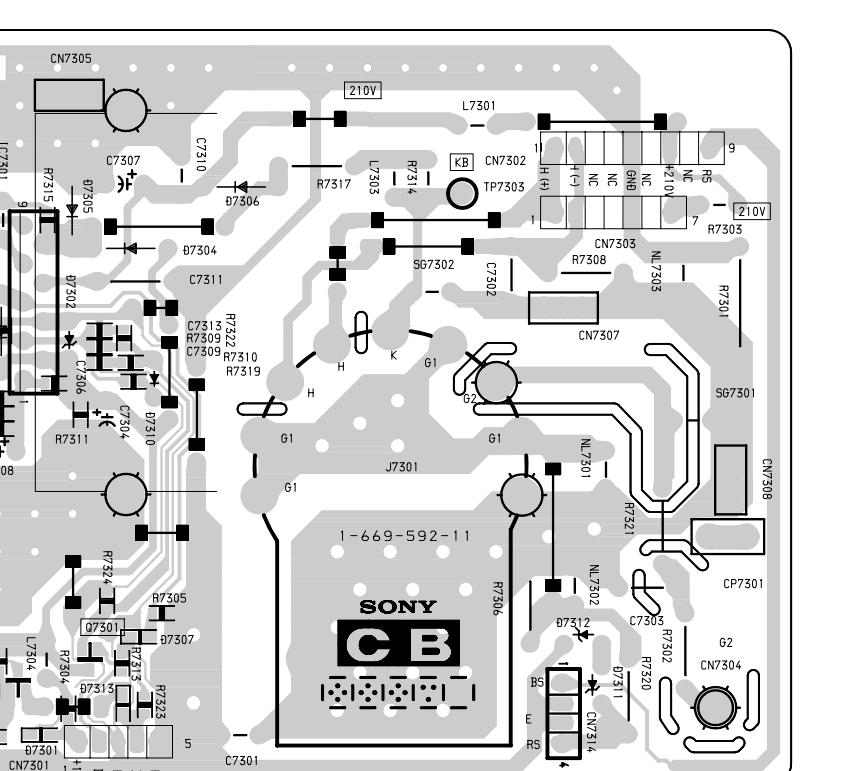
- CR Board -

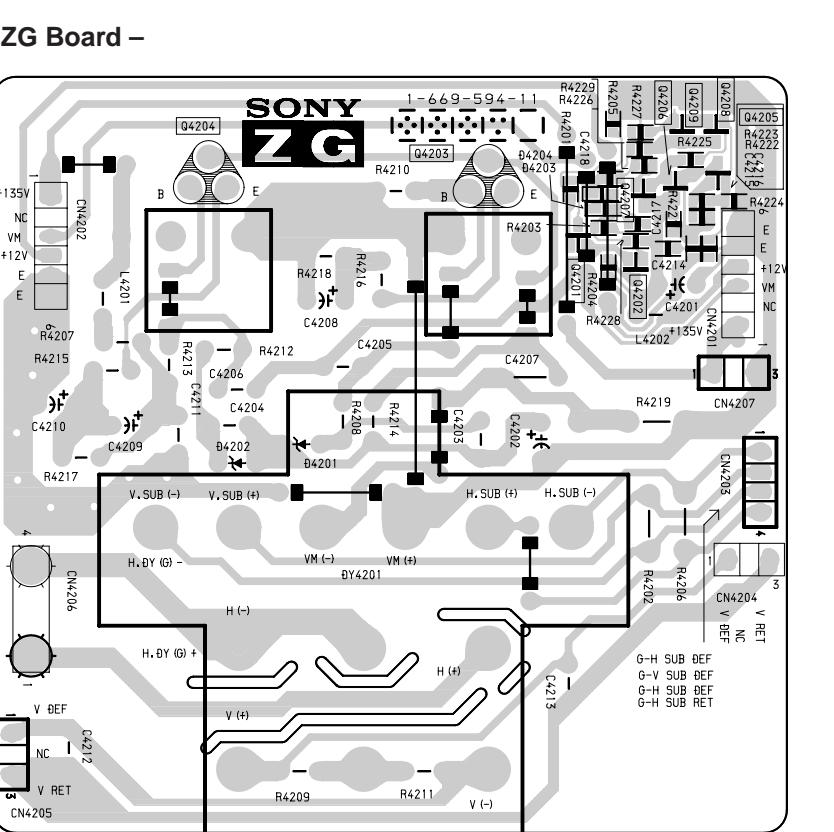
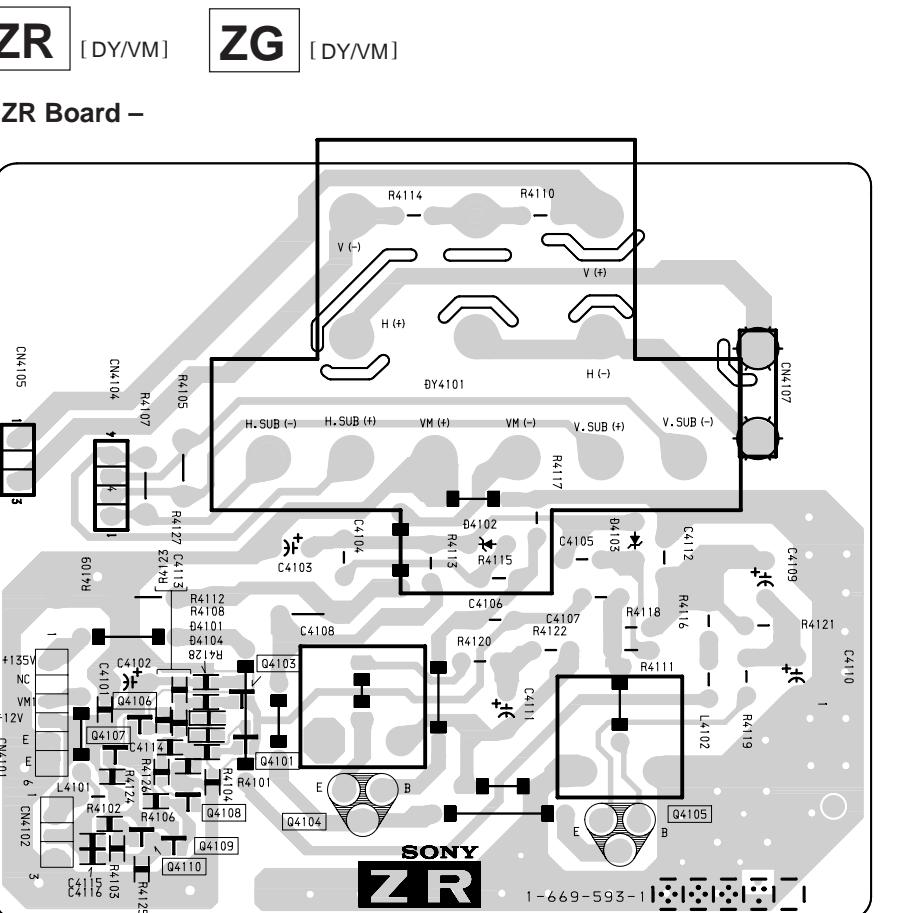
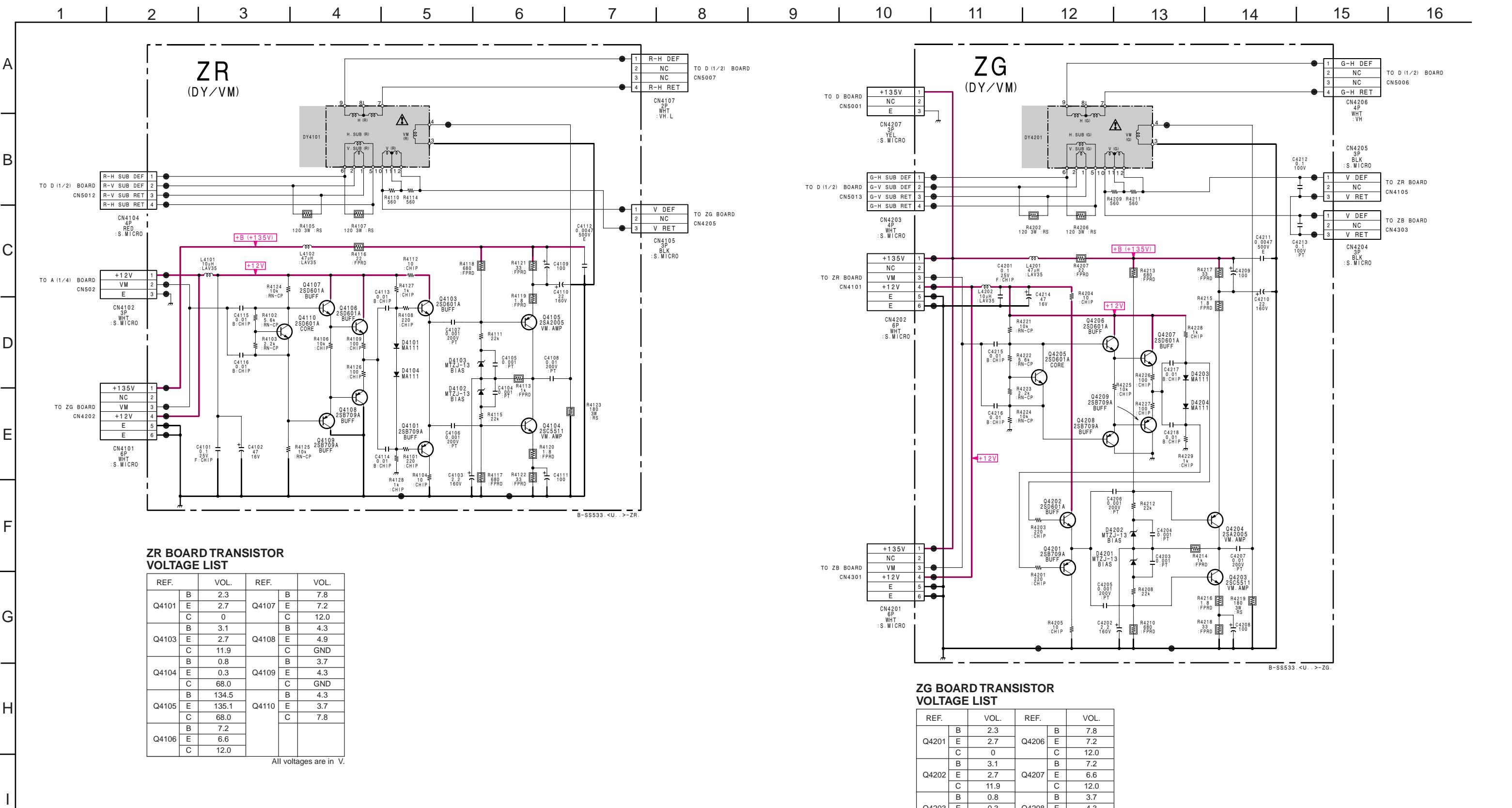


- CG Board -



- CB Board -



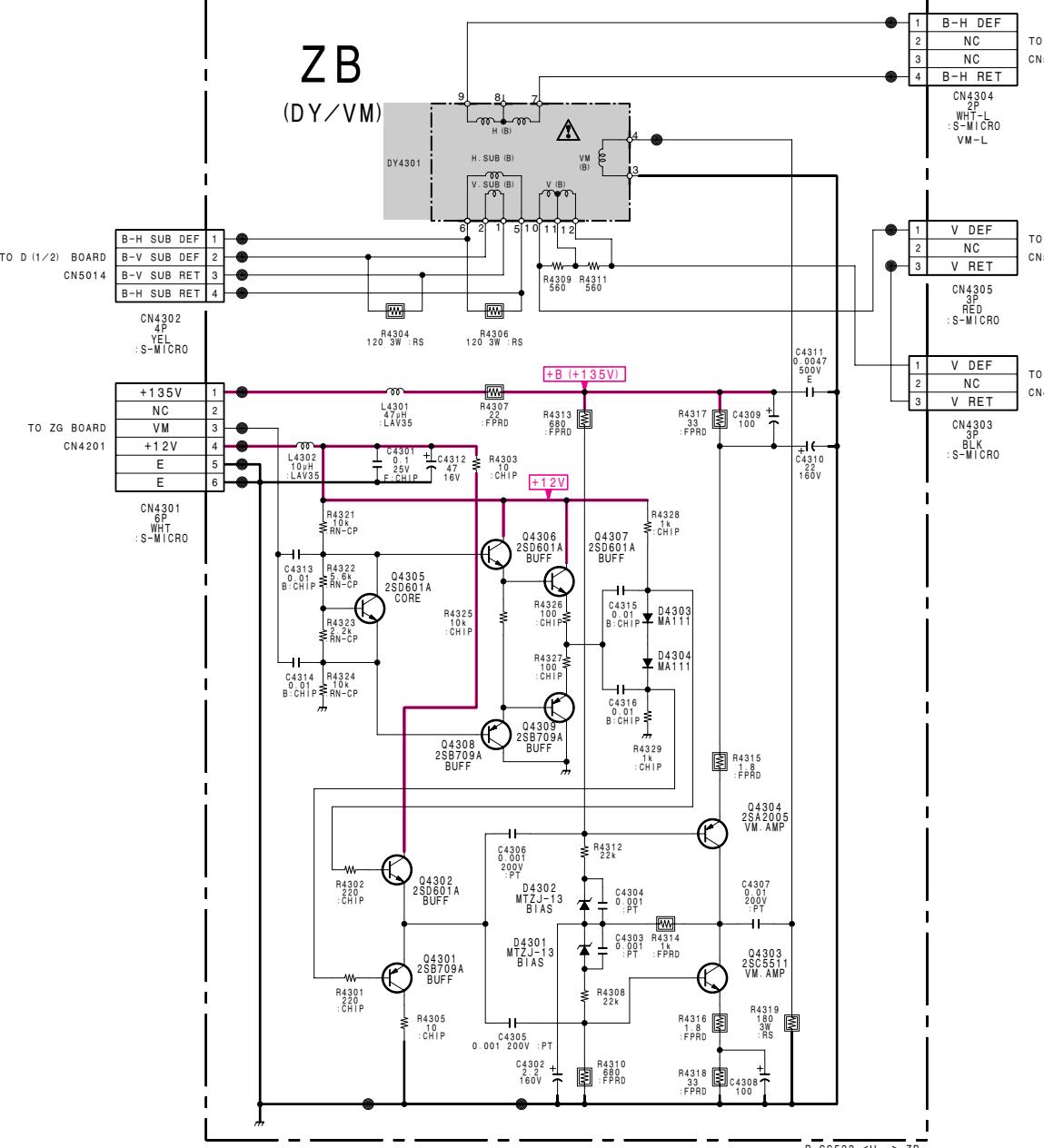


Schematic diagram

Schematic diagram

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16

A



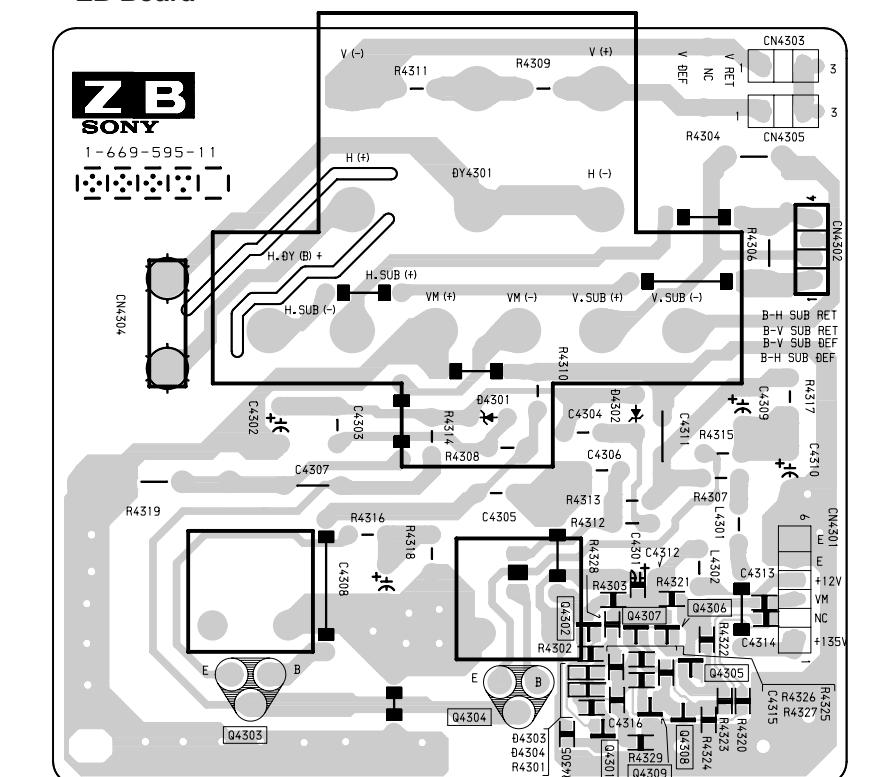
ZB BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.
Q4301	B 2.3	Q4306	B 7.8
	E 2.7		C 7.2
	C 0		C 12.0
Q4302	B 3.1	Q4307	B 7.2
	E 2.7		C 6.6
	C 11.9		C 12.0
Q4303	B 0.8	Q4308	B 3.7
	E 0.3		C 4.3
	C 68.0		GND
Q4304	B 134.5	Q4309	B 4.3
	E 135.1		C 4.9
	C 68.0		GND
Q4305	B 4.3		
	E 3.7		
	C 7.8		

All voltages are in V.

ZB [DY/VM]

- ZB Board -



U BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.
IC3501	①	5.0
Q3501	②	4.7
	③	5.0
	④	0
	⑥	0
	⑦	0
	⑧	0
	⑨	0
	⑩	0.1
	⑪	0
	⑬	0
	⑭	0.7
	⑮	0.9
Q3505	E	0
	C	0
Q3503	B	5.0
	C	0

All voltages are in V.

• All voltage are in V.

• Pin numbers which are not described are not used.

U BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.
IC3501	B 5.0
Q3501	E 0
	C 0.2
	B 5.0
Q3503	E 0
	C 0
Q3505	B 5.0
	C 0

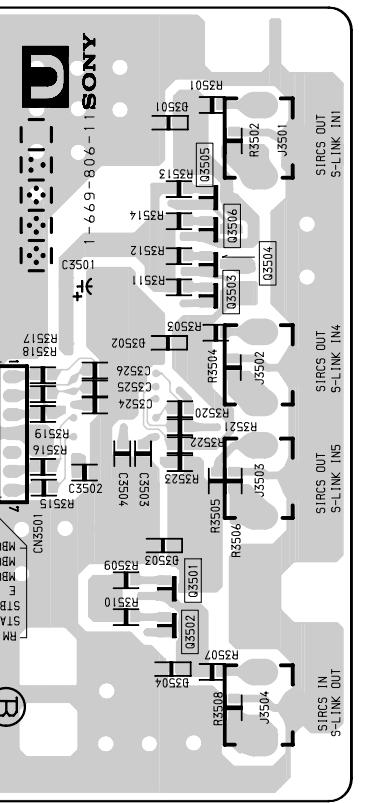
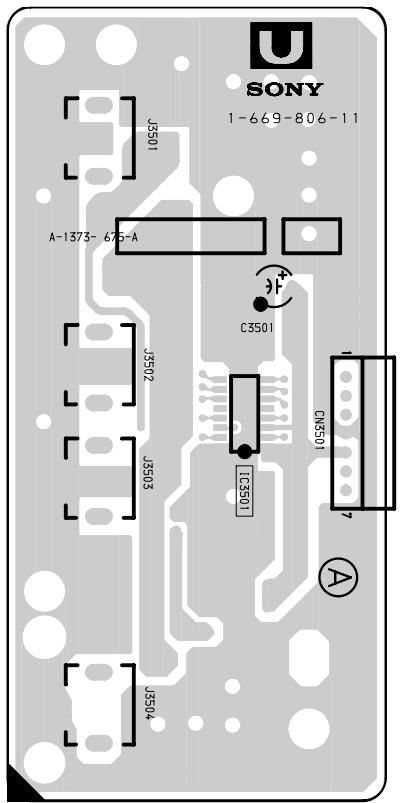
All voltages are in V.

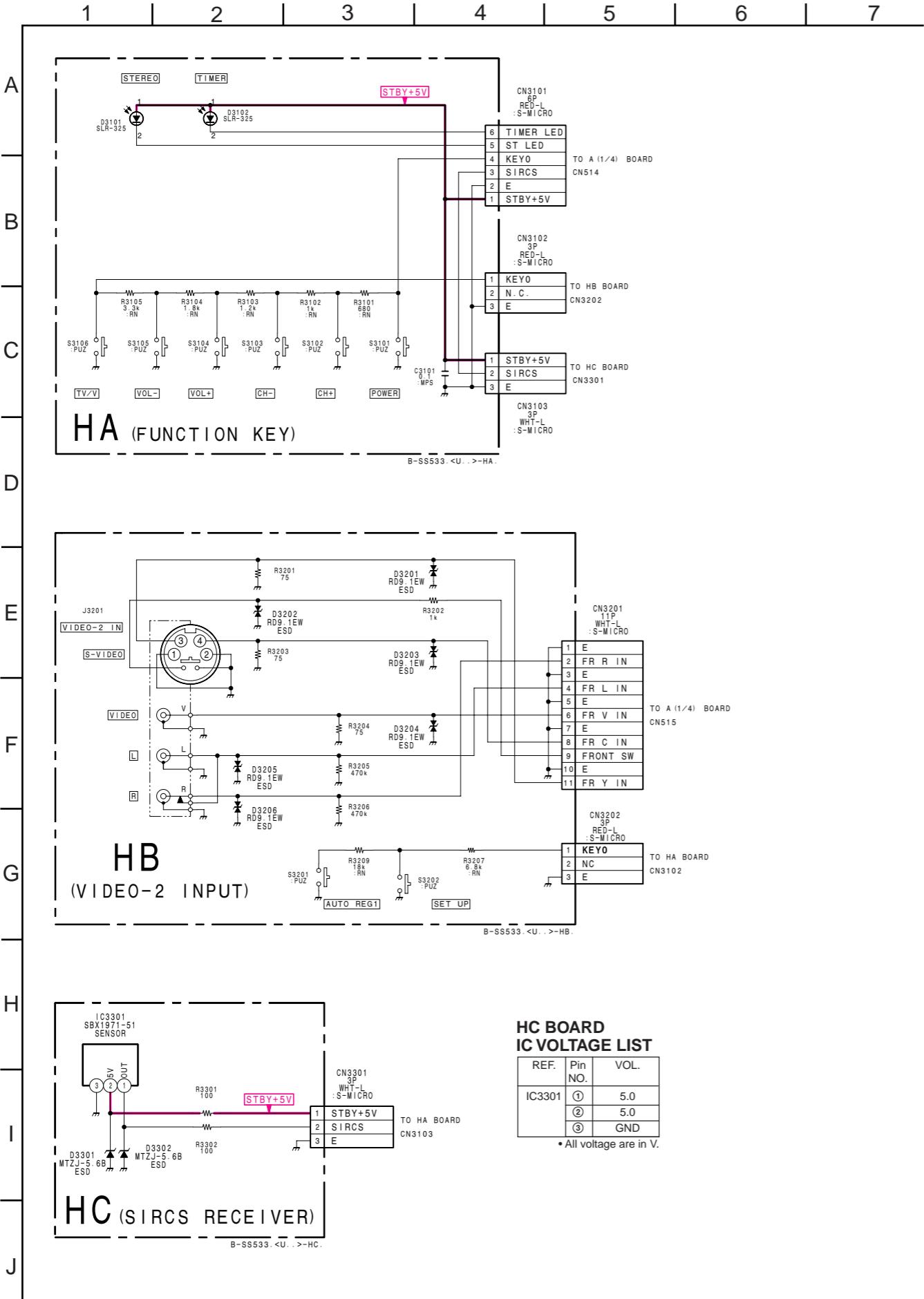
• All voltage are in V.

• Pin numbers which are not described are not used.

U [SIRCS INPUT/OUTPUT]

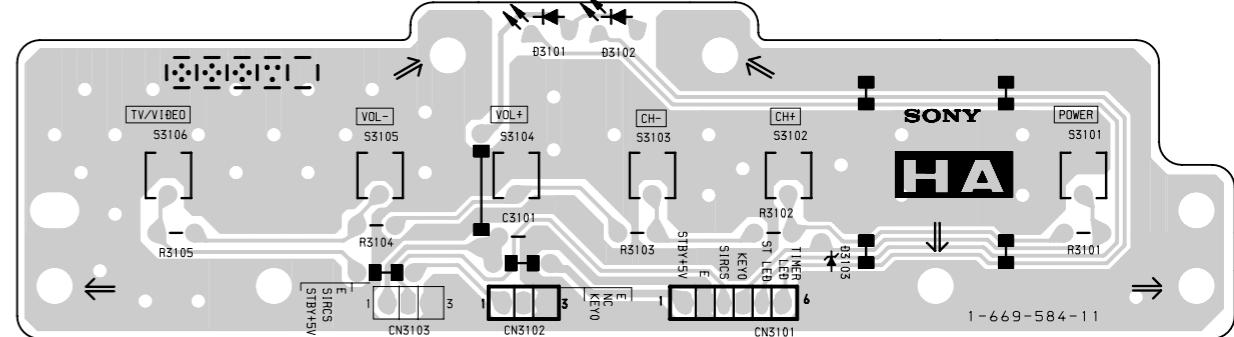
- U Board -



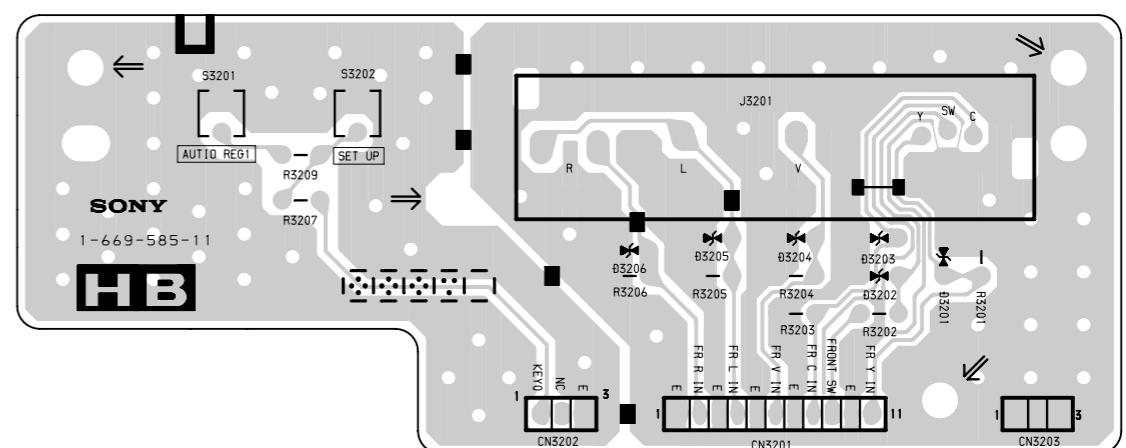


HA [FUNCTION KEK] **HB** [VIDEO-2 INPUT] **HC** [SIRCS RECEIVER]

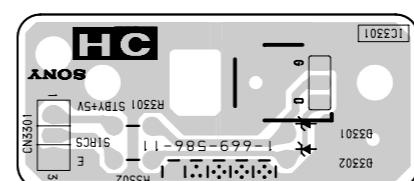
– HA Board –



- HB Board -



- HC Board -

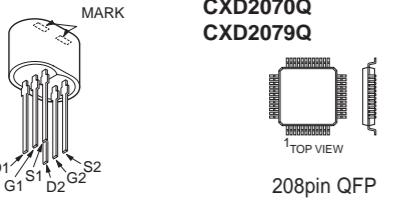
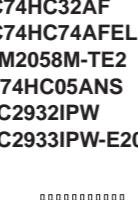
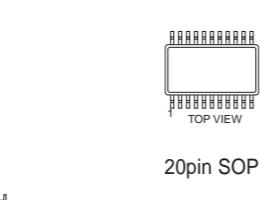
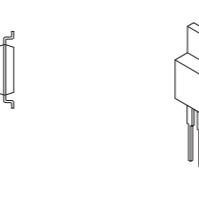
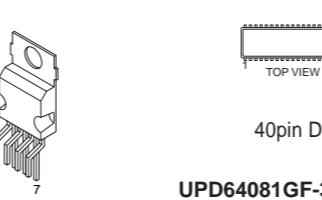
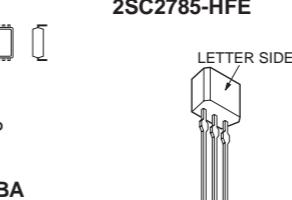
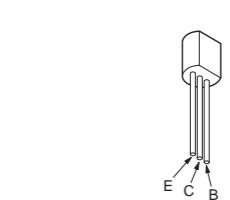
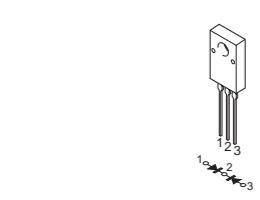
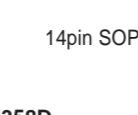
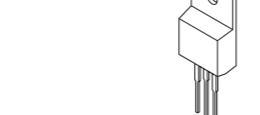
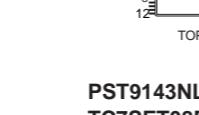
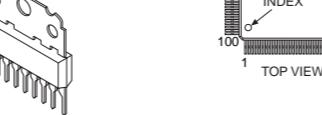
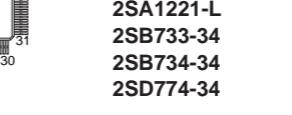
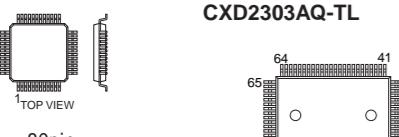
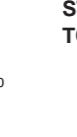
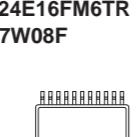
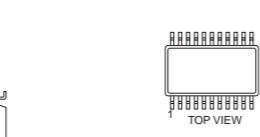
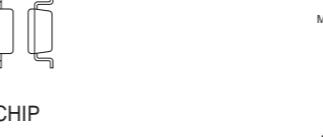
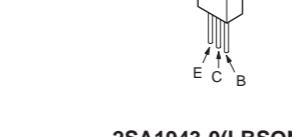
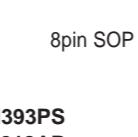
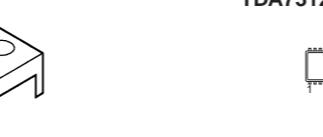
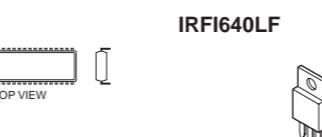
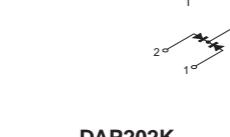
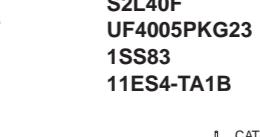
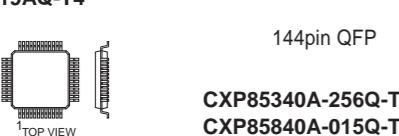
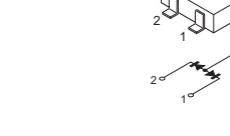
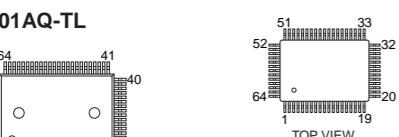
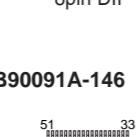
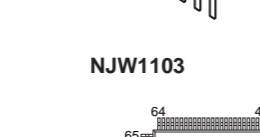
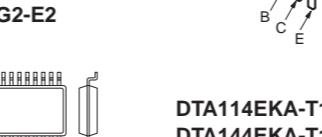
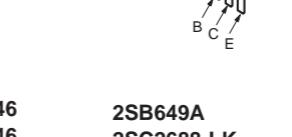
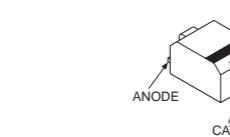
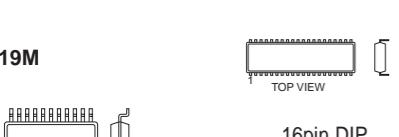
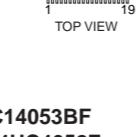
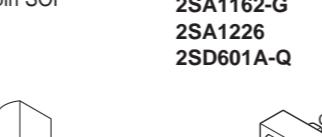
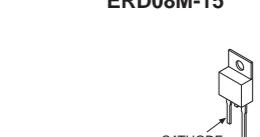
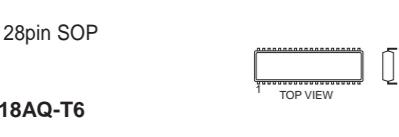
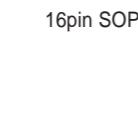
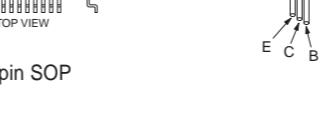
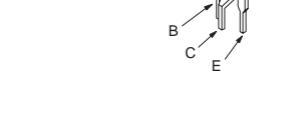
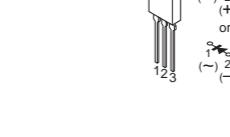
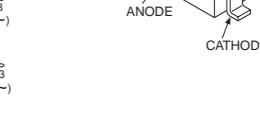
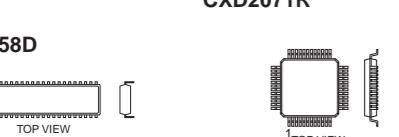
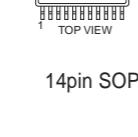
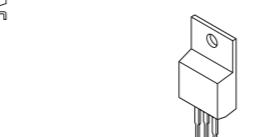
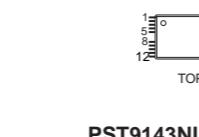
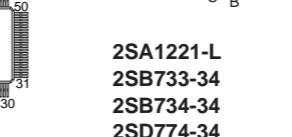
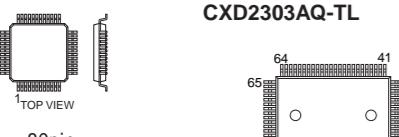
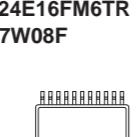
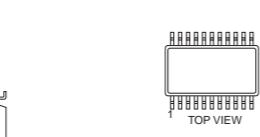
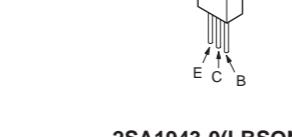
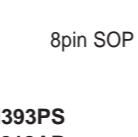
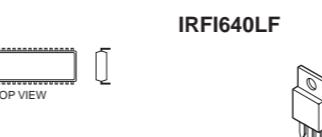
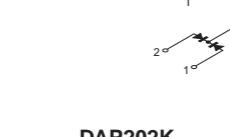
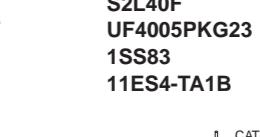
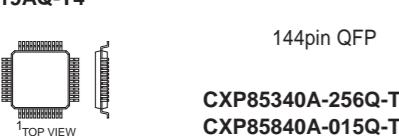
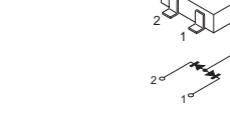
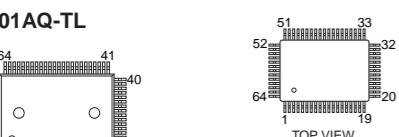
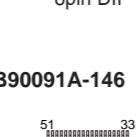
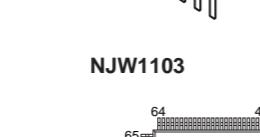
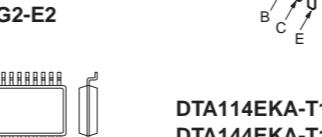
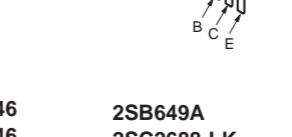
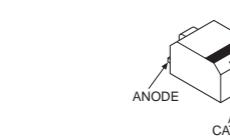


HC BOARD
IC VOLTAGE LIST

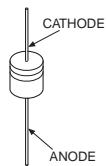
REF.	Pin NO.	VOL.
IC3301	①	5.0
	②	5.0
	③	GND

• All voltage are in V

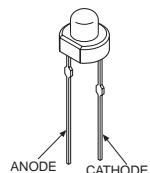
6-5. SEMICONDUCTORS

BA05T	CXD2062Q CXD2070Q CXD2079Q	LH5317XX MC74HC32AF MC74HC74AFEL NJM2058M-TE2 SN74HC05ANS TLC2932IPW TLC2933IPW-E20	MC74F244MEL	PQ09RF21	TDA2052	UPD424210LE-60-A-E2	2SA1175-HFE 2SC2785-HFE	2SC2878-AB	D10SC6M-4012
									
CA0007AD IR2112 NJM2058D	CXD2071R	208pin QFP	14pin DIP	14pin SOP	20pin SOP	TOP VIEW	TOP VIEW	TOP VIEW	TOP VIEW
									
CM0006AF	CXD2303AQ-TL	LM358D M24C02-MN6T M24C08-MN6T ST24E16FM6TR TC7W08F	MN47V77ST1	PST9143NL TC7SET08FU(TE85L) C7SH04F(TE85L)	MC7905CT	PQ30RV21	TDA6111Q / N4	TOP VIEW	TOP VIEW
									
CXA1845Q	CXD8675R	80pin	14pin DIP	176pin QFP	8pin SOP	28pin SOP	5pin CHIP	11pin ZIP	TOP VIEW
									
CXA2019AQ-T4	CXP85340A-256Q-TL CXP85840A-015Q-TL CXP85848A-016Q-TL CXP86324-013Q-TL	144pin QFP	LM393PS M5218AP TL1591CP TOP209D TOP209P UPC358C UPC393C	MSM548331TS-K	SBX1780-51(10)	SE-135N	TDA7265	UPC1093J-1-T	TOP VIEW
									
CXA2101AQ-TL	IR3M02A	8pin DIP	144pin QFP	8pin SOP	NJM7912FA	44pin	TDA7312	IRFI640LF	TOP VIEW
									
CXA2119M	LA7856A	40pin	40pin	8pin DIP	MB90091A-146	51pin	TLC5733AIPM	IRFI644G-LF36	TOP VIEW
									
CXD2018AQ-T6	PC123F2	16pin DIP	16pin SOP	16pin SOP	PC123F2	STV9379	UPC574J	IRFI644G-LF36	TOP VIEW
									
CXD2018AQ-T6	TA7805S A7812S	22pin DIP	22pin DIP	16pin SOP	PQ05RF21	TA7805S A7812S	UPC659AGS-E2	2SA1013-O	TOP VIEW
									
CA0007AD IR2112 NJM2058D	UPD64081GF-3BA	40pin DIP	TOP VIEW	TDA7265	MARKING SIDE VIEW	11pin ZIP	TOP VIEW	2SA1221-L 2SB733-34 2SB734-34 2SD774-34	TOP VIEW
									
CM0006AF	UPC1093J-1-T	2SA1943-0(LBSONY)	TOP VIEW	TDA7312	IRFI640LF	30pin	TOP VIEW	2SA2005 2SC5511	TOP VIEW
									
CXA1845Q	UPC4570G2-E2	IRFI644G-LF36	64pin	STK392-020	UPC4570G2-E2	9pin SOP	TOP VIEW	DTZ10B DTZ33B DTZ5.1B	TOP VIEW
									
CXA2019AQ-T4	TA7805S A7812S	TOP VIEW	TOP VIEW	TA7805S A7812S	TOP VIEW	TOP VIEW	TOP VIEW	2SB649A 2SC2688-LK	TOP VIEW
									
CXA2101AQ-TL	UPC574J	DTA114EKA-T146 DTA144EKA-T146 DTC114EK DTC144EKA 2SA1162-G 2SA1226 2SD601A-Q	TOP VIEW	UPC574J	DTA114EKA-T146 DTA144EKA-T146 DTC114EK DTC144EKA 2SA1162-G 2SA1226 2SD601A-Q	TOP VIEW	TOP VIEW	TOP VIEW	TOP VIEW
									
CXA2119M	TA7805S A7812S	TOP VIEW	TOP VIEW	TA7805S A7812S	TOP VIEW	TOP VIEW	TOP VIEW	2SA1013-O	TOP VIEW
<img alt="CXA2119M component diagram" data-bbox="50 705 180									

MA3033-L
MA3091
MA3150H-TX
MA3220M-TX
RD13M-B3
RD5.1M-B2

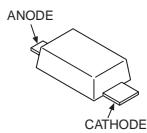


SLR-325VCT31



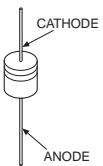
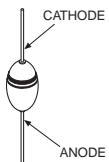
S2LA20F
1SS133T-77

MA8039

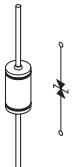


U05G

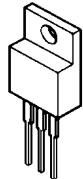
MTZJ-13
MTZJ-33B
MTZJ-7.5B
RD10ESB2
RD12ES-B2
RD20ES-B2
RD24ES-B1
RD5.6ESB2



RD9.1EW



SF10SC3L



SECTION 7

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.

7-1. COVER (KP-53XBR200)

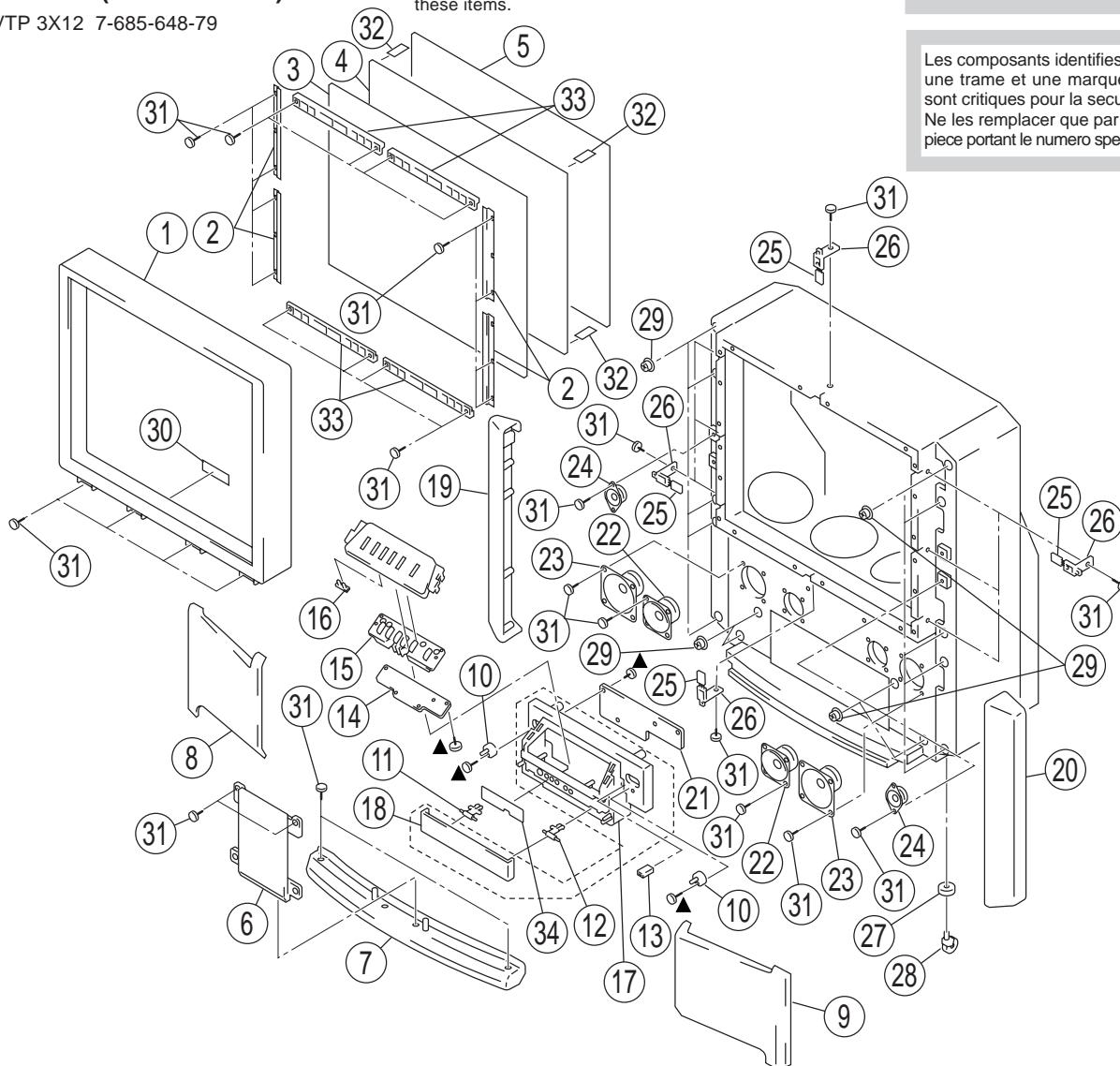
▲ : +BVTP 3X12 7-685-648-79

EXPLODED VIEWS

- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.

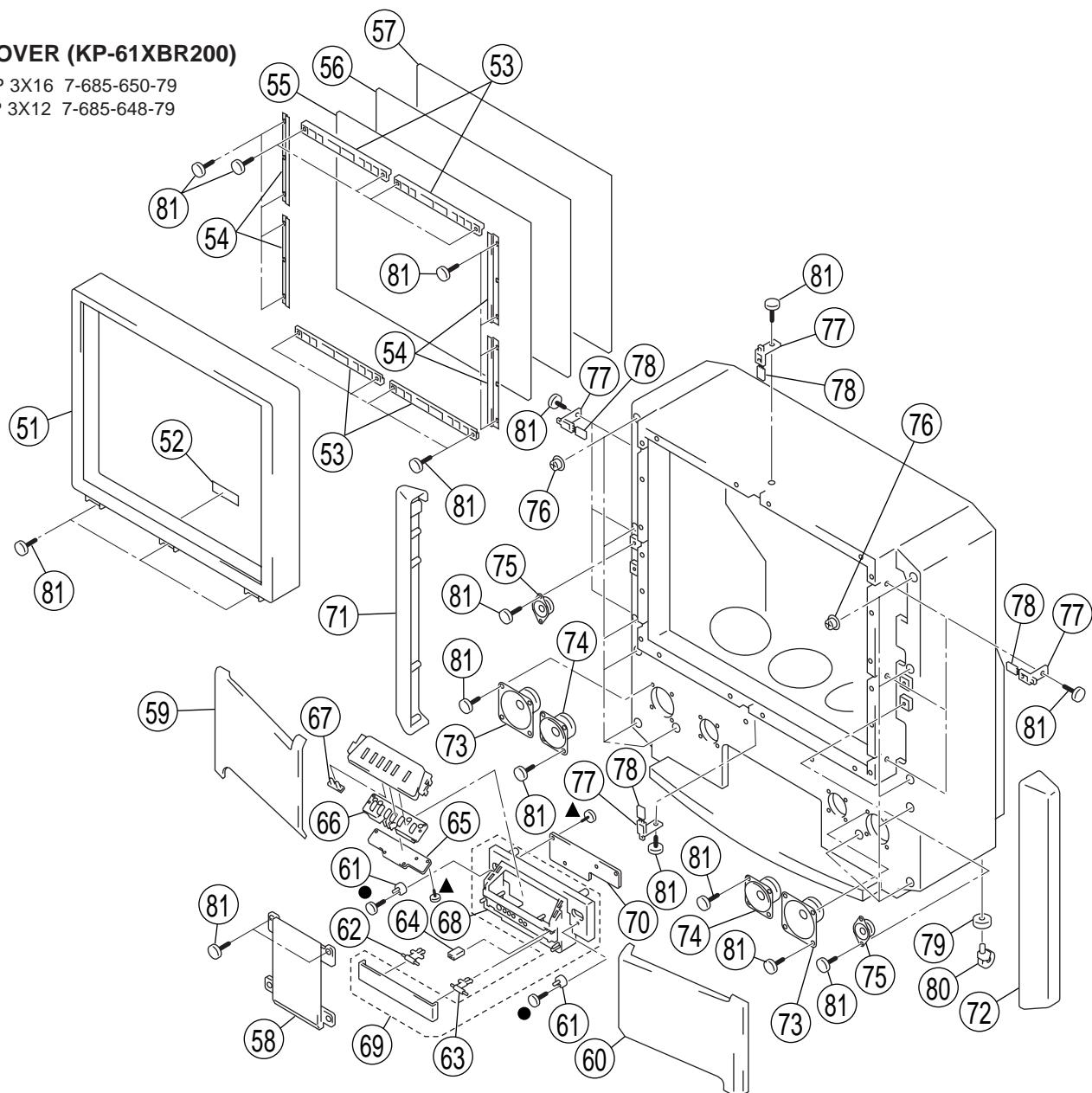
Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifique.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* X-4035-898-1	FRAME ASSY, SCREEN		18	4-065-740-01	PANEL (ASSY)	
2	4-065-780-01	HOLDER (S), SCREEN		19	A-1482-913-A	GRILLE (L) BLOCK ASSY, TOP	
3	4-065-814-01	SCREEN (POLY), CONTRAST		20	A-1482-914-A	GRILLE (R) BLOCK ASSY, TOP	
4	4-064-343-01	PLATE (L), DUFFUSION		21	* A-1372-449-A	HB BOARD, COMPLETE	
5	4-059-221-11	PLATE (F), DIFFUSION		22	1-505-914-11	SPEAKER (10CM)	
6	* X-4035-897-1	PANEL ASSY, FRONT		23	1-505-915-11	SPEAKER (13CM)	
7	* 4-063-412-01	SKIRT, FRONT		24	1-505-916-11	SPEAKER (5.2CM)	
8	X-4035-902-1	GRILLE (L) ASSY.BOTTOM SPEAKER		25	1-528-911-11	BATTERY, SOLAR	
9	X-4035-903-1	GRILLE (R) ASSY.BOTTOM SPEAKER		26	* 4-063-422-01	BRACKET, SENSOR	
10	4-054-709-01	STRIKE		27	4-030-850-01	SOCKET, CASTER	
11	4-045-250-01	DAMPER		28	4-039-546-01	CASTER	
12	3-703-035-11	SHAFT, LID		29	4-063-421-01	LATCH (K)	
13	4-042-192-01	CATCHER, PUSH		30	* A-1372-450-A	HC BOARD, COMPLETE	
14	* A-1372-448-A	HA BOARD, COMPLETE		31	4-378-522-31	SCREW (4X20), TAPPING	
15	4-063-408-01	BUTTON, MULTI		32	7-632-661-51	BLACK ACETATE (2142) 23X50M	
16	4-063-409-01	GUIDE, LED		33	4-063-411-01	HOLDER, SCREEN	
17	4-063-405-01	PANEL, CONTROL		34	4-063-426-01	LABEL, SUB CONTROL	

7-2. COVER (KP-61XBR200)

● : +BVTP 3X16 7-685-650-79
▲ : +BVTP 3X12 7-685-648-79



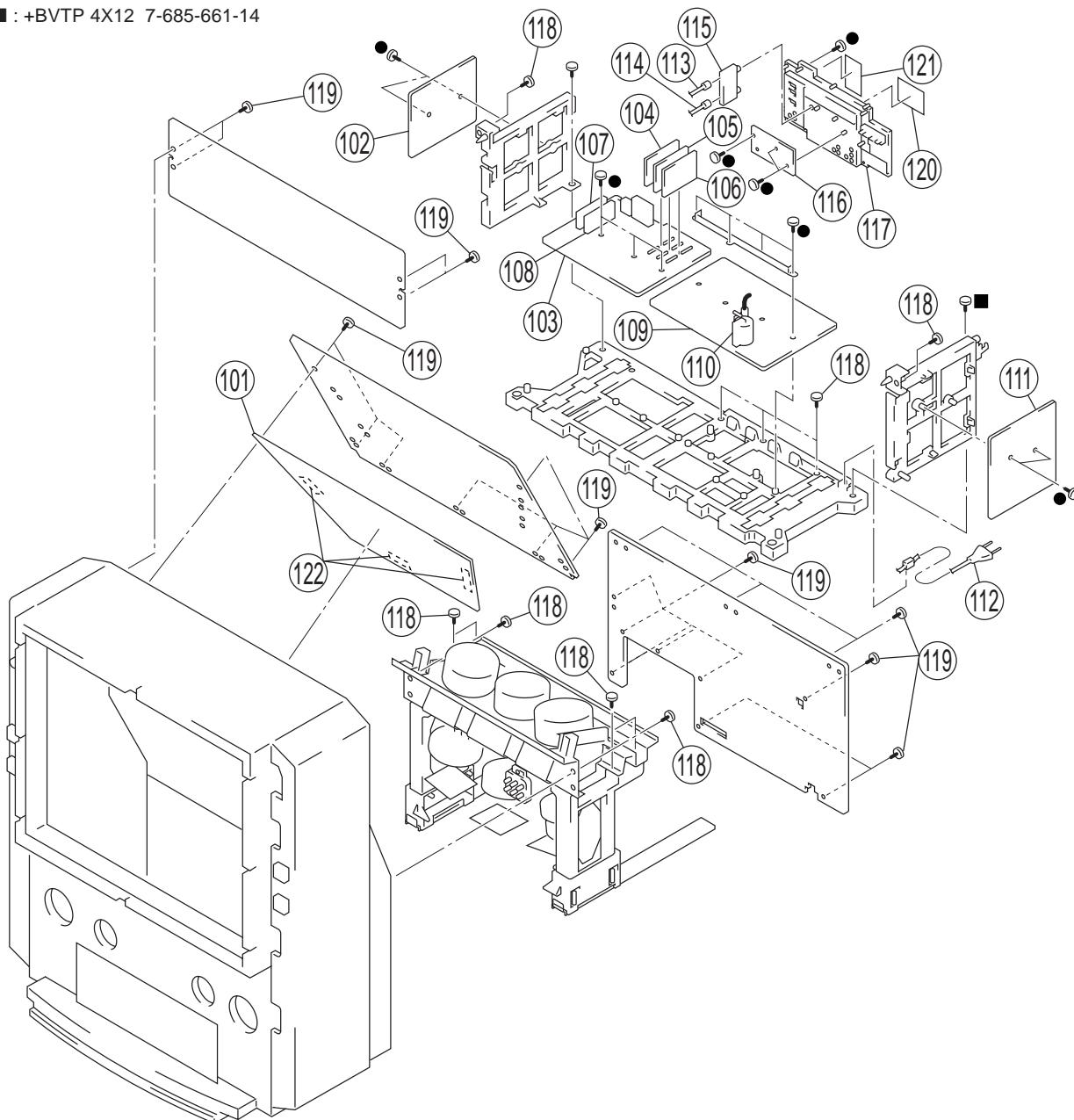
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* X-4035-896-1	FRAME ASSY, SCREEN		67	4-063-409-01	GUIDE, LED	
52	* A-1372-450-A	HC BOARD, COMPLETE		68	4-063-405-01	PANEL, CONTROL	
53	4-044-726-11	HOLDER (L), SCREEN		69	4-065-741-01	PANEL (ASSY)	
54	4-044-727-11	HOLDER (S), SCREEN		70	* A-1372-449-A	HB BOARD, COMPLETE	
55	4-065-813-01	SCREEN (POLY), CONTRAST		71	A-1482-903-A	GRILLE (L) BLOCK ASSY, TOP	
56	4-064-342-01	PLATE (L), DUFFUSION		72	A-1482-904-A	GRILLE (R) BLOCK ASSY, TOP	
57	4-066-082-01	PLATE (F), DIFFUSION		73	1-505-917-11	SPEAKER (16CM)	
58	* X-4035-890-1	PANEL ASSY, FRONT		74	1-505-914-11	SPEAKER (10CM)	
59	X-4035-894-1	GRILLE (L) ASSY,BOTTOM SPEAKER		75	1-505-916-11	SPEAKER (5.2CM)	
60	A-1482-906-A	GRILLE (R) ASSY,BOTTOM SPEAKER		76	4-063-421-01	LATCH (K)	
61	4-054-709-01	STRIKE		77	* 4-063-422-01	BRACKET, SENSOR	
62	4-045-250-01	DAMPER		78	1-528-911-11	BATTERY, SOLAR	
63	3-703-035-11	SHAFT, LID		79	4-030-850-01	SOCKET, CASTER	
64	4-042-192-01	CATCHER, PUSH		80	4-065-810-01	CASTER (50MM), PLP	
65	* A-1372-448-A	HA BOARD, COMPLETE		81	4-378-522-31	SCREW (4X20), TAPPING	
66	4-063-408-01	BUTTON, MULTI					

7-3. CHASSIS

- : +BVTP 3X16 7-685-650-79
- : +BVTP 4X12 7-685-661-14

Les composants identifiés par une trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.



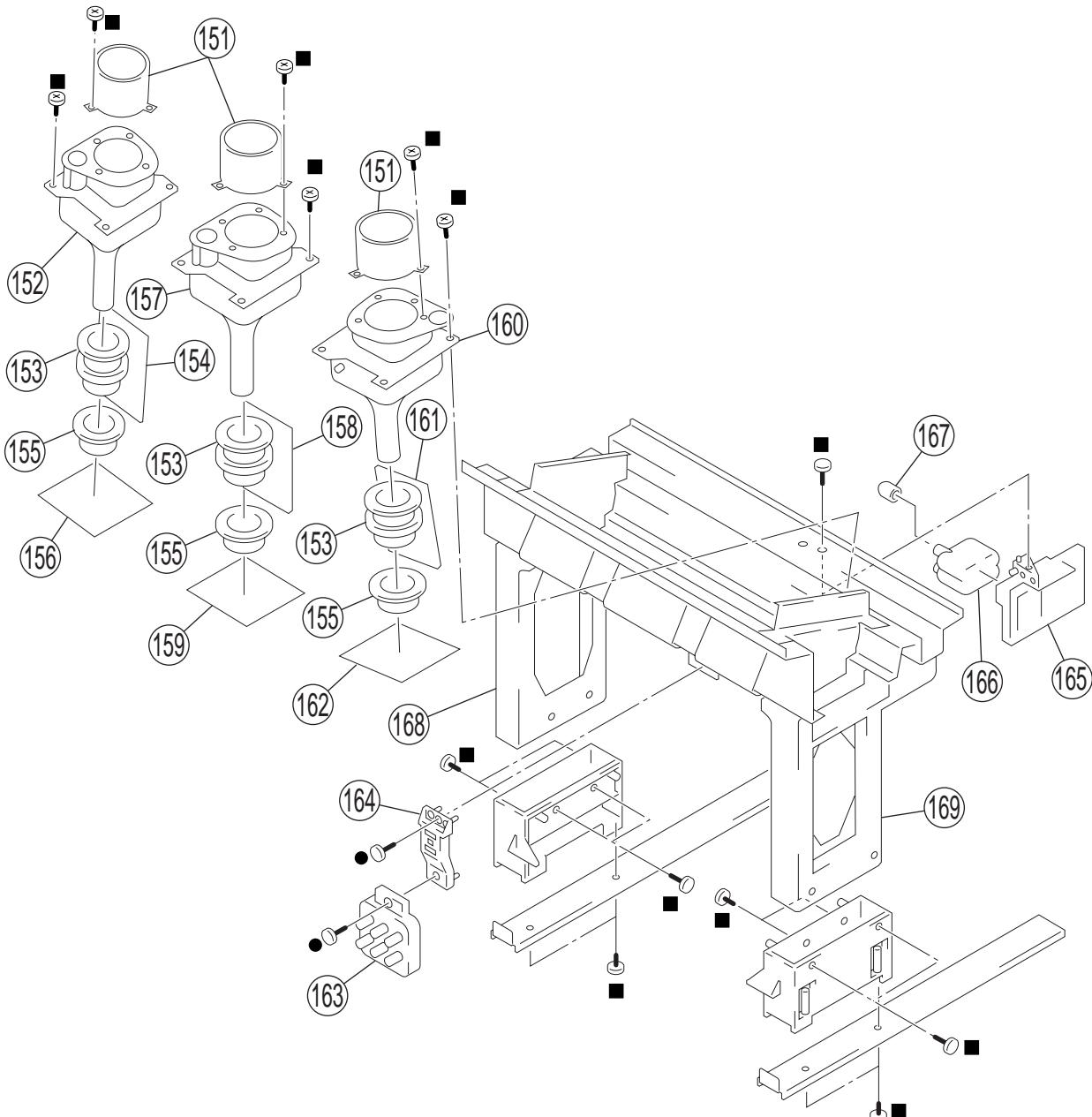
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	4-065-769-01	MIRROR (61XBR), REFLECTION (KP-61XBR200)		110	\triangle 1-453-285-11	FBT ASSY, NX-4006//X4P	
	4-065-781-01	MIRROR, REFLECTION (KP-53XBR200)		111	* A-1316-400-A	G BOARD, COMPLETE	
102	* A-1380-573-A	K BOARD, COMPLETE		112	\triangle 1-783-595-11	CORD, NOISE FILTER WITH POWER	
103	* A-1298-500-A	A BOARD, COMPLETE		113	* 1-556-945-21	CABLE, P-P	
104	* A-1131-320-A	BM BOARD, COMPLETE		114	* 1-557-056-31	CABLE, P-P	
105	* A-1131-319-A	BR BOARD, COMPLETE		115	1-251-321-12	SELECTOR, ANTENNA	
106	* A-1131-321-A	BD BOARD, COMPLETE		116	* A-1373-675-A	U BOARD, COMPLETE	
107	8-598-431-00	TUNER, FSS BTF-WA411 (MAIN)		117	4-065-812-01	TERMINAL BOARD (ASSY)	
108	8-598-431-00	TUNER, FSS BTF-WA411 (SUB)		118	4-052-894-01	SCREW (4X20), HEAD TAPPING	
109	* A-1343-476-A	D BOARD, COMPLETE (VAR) (KP-61XBR200)		119	4-378-522-31	SCREW (4X20), TAPPING	
	* A-1343-477-A	D BOARD, COMPLETE (VAR) (KP-53XBR200)		120	4-063-424-01	LABEL (A), TERMINAL	
				121	4-063-425-01	LABEL (B), TERMINAL	
				122	4-059-099-01	SPACER, FORM	

Les composants identifiés par une trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

7-4. PICTURE TUBE

- : +BVTP 3X16 7-685-650-79
- : +BVTP 4X12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK
151	4-065-715-01	LENS (DELTA 37.AB)	
152	△ 8-733-572-05	07MXC3(R)(DIAPHRAGM), PICTURE TUBE (KP-53XBR200)	
	△ 8-733-573-05	07MXC4(R)(DIAPHRAGM), PICTURE TUBE (KP-61XBR200)	
153	△ 1-451-476-11	DEFLECTION YOKE	
154	* A-1390-834-A	ZR BOARD, COMPLETE	
155	△ 1-452-790-21	NECK ASSY	
156	* A-1331-781-A	CR BOARD, COMPLETE	
157	△ 8-733-570-05	07MXC2(G)(DIAPHRAGM), PICTURE TUBE	
158	* A-1390-835-A	ZG BOARD, COMPLETE	
159	* A-1331-782-A	CG BOARD, COMPLETE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
160	△ 8-733-575-05	07MAC3(B)(DIAPHRAGM), PICTURE TUBE (KP-53XBR200)	
	△ 8-733-576-05	07MAC4(B)(DIAPHRAGM), PICTURE TUBE (KP-61XBR200)	
161	* A-1390-836-A	ZB BOARD, COMPLETE	
162	* A-1331-783-A	CB BOARD, COMPLETE	
163	△ 1-223-925-51	RESISTOR ASSY (HIGH-VOLTAGE)	
164	* 4-063-403-01	BRACKET, FOCUS PACK	
165	* 4-057-596-01	BRACKET, HV	
166	△ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
167	4-373-137-01	CAP (Z), RUBBER	
168	4-057-612-01	SIDE BOARD (L)	
169	4-057-613-01	SIDE BOARD (R)	

BD

SECTION 8

ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

• **CAPACITORS**
PF : $\mu\mu$ F

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1131-321-A BD BOARD, COMPLETE *****				C1758	1-104-664-11	ELECT	47 μ F 20% 25V
C1761	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1762	1-104-664-11	ELECT	47 μ F 20% 25V
C1763	1-104-664-11	ELECT	47 μ F	C1764	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1766	1-163-143-00	CERAMIC CHIP	0.0012 μ F	C1767	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10% 50V
C1769	1-163-275-11	CERAMIC CHIP	0.001 μ F	C1770	1-104-664-11	ELECT	47 μ F 20% 25V
<CAPACITOR>				C1772	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V
C1701	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5%	C1773	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1702	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10%	C1774	1-104-664-11	ELECT	47 μ F 20% 25V
C1704	1-163-275-11	CERAMIC CHIP	0.001 μ F 5%	C1775	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C1705	1-164-346-11	CERAMIC CHIP	1 μ F	C1776	1-104-664-11	ELECT	47 μ F 20% 25V
C1707	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1777	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1708	1-104-664-11	ELECT	47 μ F	C1778	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1709	1-126-964-11	ELECT	10 μ F	C1779	1-104-664-11	ELECT	47 μ F 20% 25V
C1710	1-164-346-11	CERAMIC CHIP	1 μ F	C1780	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1712	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1781	1-104-664-11	ELECT	47 μ F 20% 25V
C1713	1-104-664-11	ELECT	47 μ F	C1783	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5% 50V
C1714	1-164-346-11	CERAMIC CHIP	1 μ F	C1784	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10% 50V
C1715	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5%	C1786	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V
C1716	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10%	C1787	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1718	1-163-275-11	CERAMIC CHIP	0.001 μ F 5%	C1788	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1719	1-163-237-11	CERAMIC CHIP	27PF	C1789	1-104-664-11	ELECT	47 μ F 20% 25V
C1721	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1790	1-104-664-11	ELECT	47 μ F 20% 25V
C1722	1-104-664-11	ELECT	47 μ F	C1791	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1723	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1792	1-104-664-11	ELECT	47 μ F 20% 25V
C1724	1-104-664-11	ELECT	47 μ F	C1793	1-104-664-11	ELECT	47 μ F 20% 25V
C1725	1-163-231-11	CERAMIC CHIP	15PF	C1794	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1729	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1796	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1730	1-104-664-11	ELECT	47 μ F	C1797	1-104-664-11	ELECT	47 μ F 20% 25V
C1735	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5%	C1799	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1736	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10%	C1800	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1738	1-163-275-11	CERAMIC CHIP	0.001 μ F 5%	C1801	1-104-664-11	ELECT	47 μ F 20% 25V
C1739	1-104-664-11	ELECT	47 μ F	C1802	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1740	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1803	1-164-695-11	CERAMIC CHIP	0.0022 μ F 5% 50V
C1744	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1804	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1745	1-104-664-11	ELECT	47 μ F	C1805	1-104-664-11	ELECT	47 μ F 20% 25V
C1747	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1806	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1748	1-104-664-11	ELECT	47 μ F	C1807	1-104-664-11	ELECT	47 μ F 20% 25V
C1749	1-163-038-91	CERAMIC CHIP	0.1 μ F	C1808	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1750	1-104-664-11	ELECT	47 μ F	C1809	1-104-664-11	ELECT	47 μ F 20% 25V
C1751	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5%	C1810	1-104-664-11	ELECT	47 μ F 20% 25V
C1752	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10%	C1811	1-104-664-11	ELECT	47 μ F 20% 25V
C1754	1-163-275-11	CERAMIC CHIP	0.001 μ F 5%	C1812	1-104-664-11	ELECT	47 μ F 20% 25V
C1757	1-163-038-91	CERAMIC CHIP	0.1 μ F				



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C1814	1-104-664-11	ELECT	47μF	20%	25V		<DIODE>		
C1815	1-163-038-91	CERAMIC CHIP	0.1μF		25V	D1701	8-719-404-49	DIODE MA111	
C1816	1-104-664-11	ELECT	47μF	20%	25V	D1702	8-719-404-49	DIODE MA111	
C1817	1-163-038-91	CERAMIC CHIP	0.1μF		25V	D1703	8-719-404-49	DIODE MA111	
C1818	1-104-664-11	ELECT	47μF	20%	25V	D1704	8-719-404-49	DIODE MA111	
C1819	1-163-038-91	CERAMIC CHIP	0.1μF		25V		<IC>		
C1820	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	IC1701	8-759-398-25	IC TC7SH04F(TE85L)	
C1821	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	IC1702	8-759-106-02	IC UPC4570G2	
C1822	1-126-934-11	ELECT	220μF	20%	16V	IC1703	8-752-900-82	IC CXP86324-013Q-TL	
C1823	1-104-664-11	ELECT	47μF	20%	25V	IC1704	8-759-468-90	IC ST24E16FM6TR	
C1824	1-104-664-11	ELECT	47μF	20%	25V	IC1705	8-759-106-02	IC UPC4570G2	
C1825	1-104-664-11	ELECT	47μF	20%	25V	IC1706	8-759-106-02	IC UPC4570G2	
C1827	1-126-934-11	ELECT	220μF	20%	16V	IC1707	8-759-546-26	IC CM006AF	
C1830	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	IC1708	8-759-106-02	IC UPC4570G2	
C1831	1-104-664-11	ELECT	47μF	20%	25V	IC1709	8-759-106-02	IC UPC4570G2	
C1832	1-104-664-11	ELECT	47μF	20%	25V	IC1710	8-759-106-02	IC UPC4570G2	
C1833	1-163-038-91	CERAMIC CHIP	0.1μF		25V	IC1711	8-759-106-02	IC UPC4570G2	
C1834	1-104-664-11	ELECT	47μF	20%	25V	IC1712	8-759-032-20	IC MC74HC32AF	
C1835	1-163-038-91	CERAMIC CHIP	0.1μF		25V	IC1713	8-759-546-22	IC UPD6376GS-E2	
C1836	1-104-664-11	ELECT	47μF	20%	25V	IC1714	8-759-546-22	IC UPD6376GS-E2	
C1837	1-104-664-11	ELECT	47μF	20%	25V	IC1715	8-759-546-22	IC UPD6376GS-E2	
C1838	1-104-664-11	ELECT	47μF	20%	25V	IC1716	8-759-367-69	IC MC74HC74AFEL	
C1839	1-163-038-91	CERAMIC CHIP	0.1μF		25V	IC1718	8-759-352-91	IC PST9143NL	
C1840	1-104-664-11	ELECT	47μF	20%	25V	IC1719	8-759-546-22	IC UPD6376GS-E2	
C1841	1-163-038-91	CERAMIC CHIP	0.1μF		25V	IC1720	8-759-546-22	IC UPD6376GS-E2	
C1842	1-104-664-11	ELECT	47μF	20%	25V	IC1721	8-759-546-22	IC UPD6376GS-E2	
C1843	1-104-664-11	ELECT	47μF	20%	25V	IC1722	8-759-295-09	IC TLC2932IPW	
C1844	1-104-664-11	ELECT	47μF	20%	25V	IC1723	8-759-485-79	IC TC7SET08FU(TE85L)	
C1845	1-163-038-91	CERAMIC CHIP	0.1μF		25V	IC1724	8-759-546-22	IC UPD6376GS-E2	
C1846	1-104-664-11	ELECT	47μF	20%	25V	IC1725	8-759-485-79	IC TC7SET08FU(TE85L)	
C1847	1-163-038-91	CERAMIC CHIP	0.1μF		25V		<CHIP CONDUCTOR>		
C1857	1-126-967-11	ELECT	47μF	20%	50V				
C1858	1-126-967-11	ELECT	47μF	20%	50V				
C1859	1-164-346-11	CERAMIC CHIP	1μF		16V				
C1860	1-163-038-91	CERAMIC CHIP	0.1μF		25V				
C1861	1-163-038-91	CERAMIC CHIP	0.1μF		25V	JR1701	1-216-295-91	CONDUCTOR, CHIP	0
C1862	1-163-038-91	CERAMIC CHIP	0.1μF		25V	JR1702	1-216-295-91	CONDUCTOR, CHIP	0
C1863	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	JR1703	1-216-295-91	CONDUCTOR, CHIP	0
C1864	1-163-038-91	CERAMIC CHIP	0.1μF		25V	JR1704	1-216-295-91	CONDUCTOR, CHIP	0
C1870	1-104-664-11	ELECT	47μF	20%	25V				
C1871	1-104-664-11	ELECT	47μF	20%	25V		<COIL>		
C1872	1-104-664-11	ELECT	47μF	20%	25V	L1701	1-410-493-11	INDUCTOR	820μH
C1873	1-104-664-11	ELECT	47μF	20%	25V	L1702	1-410-494-11	INDUCTOR	1mmH
C1874	1-163-038-91	CERAMIC CHIP	0.1μF		25V	L1703	1-410-470-11	INDUCTOR	10μH
C1875	1-163-038-91	CERAMIC CHIP	0.1μF		25V	L1704	1-410-470-11	INDUCTOR	10μH
C1876	1-163-038-91	CERAMIC CHIP	0.1μF		25V	L1705	1-410-493-11	INDUCTOR	820μH
C1877	1-163-038-91	CERAMIC CHIP	0.1μF		25V	L1706	1-410-494-11	INDUCTOR	1mmH
C1878	1-163-038-91	CERAMIC CHIP	0.1μF		25V	L1707	1-410-470-11	INDUCTOR	10μH
C1879	1-163-038-91	CERAMIC CHIP	0.1μF		25V	L1708	1-410-470-11	INDUCTOR	10μH
						L1710	1-410-470-11	INDUCTOR	10μH
						L1711	1-410-493-11	INDUCTOR	820μH
<CONNECTOR>									
CN1701	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P				L1712	1-410-494-11	INDUCTOR	1mmH
CN1702	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P				L1713	1-410-470-11	INDUCTOR	10μH
						L1714	1-414-234-11	INDUCTOR CHIP	0μH
						L1715	1-410-470-11	INDUCTOR	10μH
						L1716	1-410-470-11	INDUCTOR	10μH

BD

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L1717	1-410-493-11	INDUCTOR	820μH	R1715	1-216-025-91	RES,CHIP	100 5% 1/10W
L1718	1-410-494-11	INDUCTOR	1mmH	R1716	1-216-025-91	RES,CHIP	100 5% 1/10W
L1719	1-410-470-11	INDUCTOR	10μH	R1717	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
L1720	1-410-470-11	INDUCTOR	10μH	R1718	1-216-025-91	RES,CHIP	100 5% 1/10W
L1721	1-414-234-11	INDUCTOR CHIP	0μH	R1719	1-216-025-91	RES,CHIP	100 5% 1/10W
L1722	1-410-493-11	INDUCTOR	820μH	R1720	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
L1723	1-410-494-11	INDUCTOR	1mmH	R1721	1-216-049-91	RES,CHIP	1K 5% 1/10W
L1724	1-410-470-11	INDUCTOR	10μH	R1722	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
L1725	1-414-234-11	INDUCTOR CHIP	0μH	R1723	1-216-049-91	RES,CHIP	1K 5% 1/10W
L1726	1-410-470-11	INDUCTOR	10μH	R1724	1-216-025-91	RES,CHIP	100 5% 1/10W
L1727	1-410-493-11	INDUCTOR	820μH	R1725	1-208-776-11	RES,CHIP	560 0.50% 1/10W
L1728	1-410-494-11	INDUCTOR	1mmH	R1726	1-208-776-11	RES,CHIP	560 0.50% 1/10W
L1729	1-414-234-11	INDUCTOR CHIP	0μH	R1727	1-216-033-00	RES,CHIP	220 5% 1/10W
L1730	1-410-470-11	INDUCTOR	10μH	R1728	1-216-033-00	RES,CHIP	220 5% 1/10W
L1731	1-410-470-11	INDUCTOR	10μH	R1729	1-216-049-91	RES,CHIP	1K 5% 1/10W
L1732	1-414-234-11	INDUCTOR CHIP	0μH	R1730	1-208-850-11	RES,CHIP	680K 0.50% 1/10W
L1733	1-414-234-11	INDUCTOR CHIP	0μH	R1731	1-216-025-91	RES,CHIP	100 5% 1/10W
L1734	1-414-234-11	INDUCTOR CHIP	0μH	R1732	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W
L1735	1-414-234-11	INDUCTOR CHIP	0μH	R1733	1-216-025-91	RES,CHIP	100 5% 1/10W
L1736	1-414-234-11	INDUCTOR CHIP	0μH	R1735	1-216-025-91	RES,CHIP	100 5% 1/10W
L1737	1-414-234-11	INDUCTOR CHIP	0μH	R1736	1-216-025-91	RES,CHIP	100 5% 1/10W
L1738	1-414-234-11	INDUCTOR CHIP	0μH	R1737	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
L1739	1-414-234-11	INDUCTOR CHIP	0μH	R1738	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
L1740	1-414-234-11	INDUCTOR CHIP	0μH	R1739	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W
L1741	1-414-234-11	INDUCTOR CHIP	0μH	R1740	1-216-025-91	RES,CHIP	100 5% 1/10W
L1742	1-414-234-11	INDUCTOR CHIP	0μH	R1741	1-216-033-00	RES,CHIP	220 5% 1/10W
L1743	1-414-234-11	INDUCTOR CHIP	0μH	R1742	1-216-025-91	RES,CHIP	100 5% 1/10W
L1744	1-414-234-11	INDUCTOR CHIP	0μH	R1743	1-216-033-00	RES,CHIP	220 5% 1/10W
L1745	1-414-234-11	INDUCTOR CHIP	0μH	R1744	1-216-025-91	RES,CHIP	100 5% 1/10W
L1746	1-414-234-11	INDUCTOR CHIP	0μH	R1745	1-216-033-00	RES,CHIP	220 5% 1/10W
L1750	1-414-234-11	INDUCTOR CHIP	0μH	R1746	1-216-033-00	RES,CHIP	220 5% 1/10W
L1751	1-414-234-11	INDUCTOR CHIP	0μH	R1747	1-216-025-91	RES,CHIP	100 5% 1/10W
<TRANSISTOR>							
Q1701	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1750	1-208-776-11	RES,CHIP	560 0.50% 1/10W
Q1702	8-729-422-27	TRANSISTOR 2SD601A-Q		R1751	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q1703	8-729-900-53	TRANSISTOR DTC114EK		R1752	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W
Q1709	8-729-422-27	TRANSISTOR 2SD601A-Q		R1753	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q1710	8-729-422-27	TRANSISTOR 2SD601A-Q		R1754	1-216-049-91	RES,CHIP	1K 5% 1/10W
<RESISTOR>							
R1701	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1755	1-216-025-91	RES,CHIP	100 5% 1/10W
R1702	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1756	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1703	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1757	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1704	1-216-295-91	CONDUCTOR, CHIP	0	R1758	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W
R1705	1-216-025-91	RES,CHIP	100 5% 1/10W	R1759	1-216-025-91	RES,CHIP	100 5% 1/10W
R1706	1-216-025-91	RES,CHIP	100 5% 1/10W	R1760	1-216-025-91	RES,CHIP	100 5% 1/10W
R1707	1-216-025-91	RES,CHIP	100 5% 1/10W	R1761	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1708	1-216-025-91	RES,CHIP	100 5% 1/10W	R1762	1-216-033-00	RES,CHIP	220 5% 1/10W
R1709	1-216-041-00	RES,CHIP	470 5% 1/10W	R1763	1-216-025-91	RES,CHIP	100 5% 1/10W
R1710	1-216-025-91	RES,CHIP	100 5% 1/10W	R1765	1-216-033-00	RES,CHIP	220 5% 1/10W
R1711	1-216-025-91	RES,CHIP	100 5% 1/10W	R1766	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1712	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1767	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1713	1-216-041-00	RES,CHIP	470 5% 1/10W	R1768	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1714	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1769	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R1770	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R1771	1-216-025-91	RES,CHIP	100 5% 1/10W
				R1772	1-216-025-91	RES,CHIP	100 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1773	1-216-025-91	RES,CHIP	100 5% 1/10W	R1836	1-216-025-91	RES,CHIP	100 5% 1/10W
R1774	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1837	1-216-025-91	RES,CHIP	100 5% 1/10W
R1775	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1838	1-216-025-91	RES,CHIP	100 5% 1/10W
R1776	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1839	1-216-025-91	RES,CHIP	100 5% 1/10W
R1777	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1840	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1778	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1841	1-216-025-91	RES,CHIP	100 5% 1/10W
R1779	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R1842	1-216-025-91	RES,CHIP	100 5% 1/10W
R1780	1-216-025-91	RES,CHIP	100 5% 1/10W	R1843	1-216-025-91	RES,CHIP	100 5% 1/10W
R1781	1-216-025-91	RES,CHIP	100 5% 1/10W	R1844	1-216-025-91	RES,CHIP	100 5% 1/10W
R1782	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R1845	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1783	1-216-033-00	RES,CHIP	220 5% 1/10W	R1846	1-216-025-91	RES,CHIP	100 5% 1/10W
R1784	1-216-025-91	RES,CHIP	100 5% 1/10W	R1847	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1785	1-216-025-91	RES,CHIP	100 5% 1/10W	R1848	1-216-025-91	RES,CHIP	100 5% 1/10W
R1786	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1849	1-216-025-91	RES,CHIP	100 5% 1/10W
R1787	1-216-025-91	RES,CHIP	100 5% 1/10W	R1850	1-216-025-91	RES,CHIP	100 5% 1/10W
R1788	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R1851	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1789	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1853	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1790	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1854	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1791	1-216-025-91	RES,CHIP	100 5% 1/10W	R1864	1-208-850-11	RES,CHIP	680K 0.50% 1/10W
R1792	1-216-025-91	RES,CHIP	100 5% 1/10W	R1865	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1793	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1866	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1794	1-208-801-11	RES,CHIP	6.2K 0.50% 1/10W	R1867	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1795	1-216-037-00	RES,CHIP	330 5% 1/10W	R1868	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1796	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1869	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1797	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1870	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1798	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1871	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1799	1-208-802-11	RES,CHIP	6.8K 0.50% 1/10W	R1872	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1800	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1873	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1801	1-208-816-11	RES,CHIP	27K 0.50% 1/10W	R1874	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1802	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1875	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1803	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1876	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1804	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1877	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1805	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1878	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1806	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1879	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1807	1-216-037-00	RES,CHIP	330 5% 1/10W	R1880	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1808	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1881	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1809	1-216-025-91	RES,CHIP	100 5% 1/10W	R1882	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1810	1-216-025-91	RES,CHIP	100 5% 1/10W	R1883	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1811	1-216-025-91	RES,CHIP	100 5% 1/10W	R1885	1-208-793-11	RES,CHIP	3K 0.50% 1/10W
R1819	1-216-025-91	RES,CHIP	100 5% 1/10W	R1886	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1820	1-216-025-91	RES,CHIP	100 5% 1/10W	R1887	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1821	1-216-025-91	RES,CHIP	100 5% 1/10W	R1888	1-216-295-91	CONDUCTOR, CHIP	0
R1822	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1889	1-216-295-91	CONDUCTOR, CHIP	0
R1823	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1890	1-216-295-91	CONDUCTOR, CHIP	0
R1824	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1907	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1825	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1908	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1826	1-216-037-00	RES,CHIP	330 5% 1/10W	R1909	1-216-041-00	RES,CHIP	470 5% 1/10W
R1827	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1910	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1828	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1911	1-216-025-91	RES,CHIP	100 5% 1/10W
R1829	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1912	1-216-025-91	RES,CHIP	100 5% 1/10W
R1830	1-216-295-91	CONDUCTOR, CHIP	0	R1913	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1831	1-216-077-00	RES,CHIP	15K 5% 1/10W	R1914	1-216-295-91	CONDUCTOR, CHIP	0
R1832	1-216-085-00	RES,CHIP	33K 5% 1/10W	R1915	1-216-025-91	RES,CHIP	100 5% 1/10W
R1833	1-216-295-91	CONDUCTOR, CHIP	0	R1916	1-216-025-91	RES,CHIP	100 5% 1/10W
R1834	1-216-295-91	CONDUCTOR, CHIP	0	R1917	1-216-025-91	RES,CHIP	100 5% 1/10W
R1835	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1919	1-216-033-00	RES,CHIP	220 5% 1/10W

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK			
R1920	1-216-033-00	RES,CHIP	220	5%	1/10W	C352	1-163-038-91	CERAMIC CHIP	0.1μF	25V
R1923	1-216-295-91	CONDUCTOR, CHIP	0			C353	1-163-038-91	CERAMIC CHIP	0.1μF	25V
R1925	1-216-295-91	CONDUCTOR, CHIP	0			C354	1-163-038-91	CERAMIC CHIP	0.1μF	25V
R1926	1-216-033-00	RES,CHIP	220	5%	1/10W	C355	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C356	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C357	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C358	1-163-038-91	CERAMIC CHIP	0.1μF	25V
X1701	1-767-925-21	VIBRATOR, CRYSTAL				C359	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C360	1-126-204-11	ELECT CHIP	47μF	20% 16V
						C361	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C362	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C363	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C365	1-126-204-11	ELECT CHIP	47μF	20% 16V
						C366	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C367	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C368	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C369	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C370	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C371	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C372	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C373	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C374	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C375	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C376	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C377	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C378	1-124-779-00	ELECT CHIP	10μF	20% 16V
						C379	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C380	1-126-204-11	ELECT CHIP	47μF	20% 16V
						C381	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C382	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C383	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C384	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C385	1-126-204-11	ELECT CHIP	47μF	20% 16V
						C386	1-124-779-00	ELECT CHIP	10μF	20% 16V
						C387	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C392	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C393	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C394	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C395	1-126-204-11	ELECT CHIP	47μF	20% 16V
						C397	1-124-779-00	ELECT CHIP	10μF	20% 16V
						C398	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C400	1-126-204-11	ELECT CHIP	47μF	20% 16V
						C401	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C402	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C403	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C405	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C406	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C407	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C408	1-163-227-11	CERAMIC CHIP	10PF	0.5PF 50V
						C409	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C410	1-163-038-91	CERAMIC CHIP	0.1μF	25V
						C411	1-126-204-11	ELECT CHIP	47μF	20% 16V
						C412	1-164-695-11	CERAMIC CHIP	0.0022μF	5% 50V
						C413	1-164-505-11	CERAMIC CHIP	2.2μF	16V
						C414	1-163-259-91	CERAMIC CHIP	220PF	5% 50V
						C415	1-124-779-00	ELECT CHIP	10μF	20% 16V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C416	1-163-031-11	CERAMIC CHIP	0.01μF	50V	FL306	1-233-878-11	FILTER, LOW PASS	
C417	1-163-038-91	CERAMIC CHIP	0.1μF	25V				
C418	1-126-204-11	ELECT CHIP	47μF	20%	16V			
C460	1-163-038-91	CERAMIC CHIP	0.1μF	25V			<IC>	
C461	1-163-038-91	CERAMIC CHIP	0.1μF	25V				
C462	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC301	8-759-430-32	IC TLC2933IPW-E20	
C463	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC303	8-759-295-09	IC TLC2932IPW	
C464	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC304	8-752-386-47	IC CXD2071R	
C465	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC305	8-759-467-20	IC CXD8675R	
C466	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC306	8-759-447-90	IC TLC5733AIPM	
C467	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC460	8-759-393-55	IC MC74F244MEL	
C468	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC461	8-759-393-55	IC MC74F244MEL	
C469	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC462	8-752-386-52	IC CXD2070Q	
C470	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC463	8-752-384-06	IC CXD2062Q	
C471	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC464	8-759-422-80	IC MN47V77ST1	
C472	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC465	8-759-422-80	IC MN47V77ST1	
C473	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC466	8-759-239-55	IC TC74HC123AF	
C474	1-163-038-91	CERAMIC CHIP	0.1μF	25V				
C475	1-163-038-91	CERAMIC CHIP	0.1μF	25V				
C476	1-163-038-91	CERAMIC CHIP	0.1μF	25V				
C477	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L301	1-414-234-11	INDUCTOR CHIP 0μH	
C478	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L302	1-414-234-11	INDUCTOR CHIP 0μH	
C479	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L303	1-414-234-11	INDUCTOR CHIP 0μH	
C480	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L304	1-412-002-31	INDUCTOR CHIP 4.7μH	
C481	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L305	1-414-234-11	INDUCTOR CHIP 0μH	
C482	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L306	1-414-234-11	INDUCTOR CHIP 0μH	
C483	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L307	1-414-234-11	INDUCTOR CHIP 0μH	
C484	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L308	1-414-234-11	INDUCTOR CHIP 0μH	
C485	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L309	1-414-234-11	INDUCTOR CHIP 0μH	
C486	1-126-204-11	ELECT CHIP	47μF	20%	L310	1-414-234-11	INDUCTOR CHIP 0μH	
C487	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L311	1-414-234-11	INDUCTOR CHIP 0μH	
C488	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L312	1-414-234-11	INDUCTOR CHIP 0μH	
C489	1-126-204-11	ELECT CHIP	47μF	20%	L313	1-414-234-11	INDUCTOR CHIP 0μH	
C490	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L315	1-414-234-11	INDUCTOR CHIP 0μH	
C491	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L316	1-414-234-11	INDUCTOR CHIP 0μH	
C492	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L317	1-414-754-11	INDUCTOR 10μH	
C493	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L318	1-414-234-11	INDUCTOR CHIP 0μH	
C494	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L460	1-414-234-11	INDUCTOR CHIP 0μH	
C495	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L461	1-414-234-11	INDUCTOR CHIP 0μH	
C496	1-126-204-11	ELECT CHIP	47μF	20%	L462	1-414-234-11	INDUCTOR CHIP 0μH	
					L463	1-414-234-11	INDUCTOR CHIP 0μH	
					L464	1-414-234-11	INDUCTOR CHIP 0μH	
					L465	1-414-234-11	INDUCTOR CHIP 0μH	
<CONNECTOR>								
CN301	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P						
CN302	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P						
<DIODE>								
D301	8-719-422-12	DIODE MA8039						
<FILTER>								
FL301	1-233-505-21	FILTER, LOW PASS			Q309	8-729-422-27	TRANSISTOR 2SD601A-Q	
FL302	1-233-504-21	FILTER, LOW PASS			Q302	8-729-422-27	TRANSISTOR 2SD601A-Q	
FL303	1-233-504-21	FILTER, LOW PASS			Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
FL304	1-233-876-11	FILTER, LOW PASS			Q306	8-729-422-27	TRANSISTOR 2SD601A-Q	
FL305	1-233-876-11	FILTER, LOW PASS			Q308	8-729-216-22	TRANSISTOR 2SA1162-G	
<TRANSISTOR>								
Q301	8-729-422-27	TRANSISTOR 2SD601A-Q			Q309	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q302	8-729-422-27	TRANSISTOR 2SD601A-Q			Q312	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G			Q314	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q306	8-729-422-27	TRANSISTOR 2SD601A-Q			Q317	8-729-216-22	TRANSISTOR 2SA1162-G	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G			Q318	8-729-216-22	TRANSISTOR 2SA1162-G	
					Q319	8-729-216-22	TRANSISTOR 2SA1162-G	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q322	8-729-216-22	TRANSISTOR 2SA1162-G		R367	1-216-041-00	RES,CHIP	470 5% 1/10W
Q323	8-729-216-22	TRANSISTOR 2SA1162-G		R368	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
Q325	8-729-216-22	TRANSISTOR 2SA1162-G		R372	1-208-776-11	RES,CHIP	560 0.50% 1/10W
Q326	8-729-216-22	TRANSISTOR 2SA1162-G		R374	1-208-794-11	RES,CHIP	3.3K 0.50% 1/10W
Q401	8-729-422-27	TRANSISTOR 2SD601A-Q		R375	1-208-752-11	RES,CHIP	56 0.50% 1/10W
Q402	8-729-422-27	TRANSISTOR 2SD601A-Q		R376	1-208-752-11	RES,CHIP	56 0.50% 1/10W
Q403	8-729-422-27	TRANSISTOR 2SD601A-Q		R378	1-216-041-00	RES,CHIP	470 5% 1/10W
		<RESISTOR>		R379	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R302	1-216-073-00	RES,CHIP	10K 5% 1/10W	R380	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R303	1-216-037-00	RES,CHIP	330 5% 1/10W	R381	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R304	1-216-037-00	RES,CHIP	330 5% 1/10W	R382	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R305	1-208-795-11	RES,CHIP	3.6K 0.50% 1/10W	R384	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R306	1-216-097-91	RES,CHIP	100K 5% 1/10W	R391	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R307	1-216-117-00	RES,CHIP	680K 5% 1/10W	R393	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R309	1-216-295-91	CONDUCTOR, CHIP	0	R394	1-216-295-91	CONDUCTOR, CHIP	0
R311	1-216-117-00	RES,CHIP	680K 5% 1/10W	R397	1-216-041-00	RES,CHIP	470 5% 1/10W
R312	1-216-089-91	RES,CHIP	47K 5% 1/10W	R398	1-208-794-11	RES,CHIP	3.3K 0.50% 1/10W
R313	1-216-033-00	RES,CHIP	220 5% 1/10W	R399	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R314	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R400	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R315	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R401	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R317	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R402	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R318	1-216-295-91	CONDUCTOR, CHIP	0	R403	1-216-041-00	RES,CHIP	470 5% 1/10W
R320	1-216-295-91	CONDUCTOR, CHIP	0	R404	1-216-077-00	RES,CHIP	15K 5% 1/10W
R321	1-216-295-91	CONDUCTOR, CHIP	0	R405	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R322	1-216-049-91	RES,CHIP	1K 5% 1/10W	R406	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R323	1-216-117-00	RES,CHIP	680K 5% 1/10W	R407	1-216-025-91	RES,CHIP	100 5% 1/10W
R325	1-216-047-91	RES,CHIP	820 5% 1/10W	R408	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R326	1-216-049-91	RES,CHIP	1K 5% 1/10W	R409	1-208-782-11	RES,CHIP	1K 0.50% 1/10W
R327	1-216-117-00	RES,CHIP	680K 5% 1/10W	R410	1-216-041-00	RES,CHIP	470 5% 1/10W
R328	1-216-117-00	RES,CHIP	680K 5% 1/10W	R411	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W
R329	1-216-295-91	CONDUCTOR, CHIP	0	R412	1-216-077-00	RES,CHIP	15K 5% 1/10W
R330	1-216-295-91	CONDUCTOR, CHIP	0	R413	1-216-025-91	RES,CHIP	100 5% 1/10W
R331	1-216-295-91	CONDUCTOR, CHIP	0	R414	1-208-765-11	RES,CHIP	200 0.50% 1/10W
R332	1-216-295-91	CONDUCTOR, CHIP	0	R415	1-216-049-91	RES,CHIP	1K 5% 1/10W
R334	1-216-081-00	RES,CHIP	22K 5% 1/10W	R416	1-216-077-00	RES,CHIP	15K 5% 1/10W
R340	1-216-047-91	RES,CHIP	820 5% 1/10W	R417	1-216-077-00	RES,CHIP	15K 5% 1/10W
R343	1-216-295-91	CONDUCTOR, CHIP	0	R418	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R344	1-216-091-00	RES,CHIP	56K 5% 1/10W	R419	1-216-079-00	RES,CHIP	18K 5% 1/10W
R345	1-216-295-91	CONDUCTOR, CHIP	0	R420	1-216-049-91	RES,CHIP	1K 5% 1/10W
R348	1-216-295-91	CONDUCTOR, CHIP	0	R421	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R349	1-216-295-91	CONDUCTOR, CHIP	0	R422	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R351	1-216-295-91	CONDUCTOR, CHIP	0	R424	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R352	1-216-295-91	CONDUCTOR, CHIP	0	R425	1-216-295-91	CONDUCTOR, CHIP	0
R356	1-216-025-91	RES,CHIP	100 5% 1/10W	R426	1-216-295-91	CONDUCTOR, CHIP	0
R357	1-216-025-91	RES,CHIP	100 5% 1/10W	R427	1-216-025-91	RES,CHIP	100 5% 1/10W
R358	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R429	1-208-765-11	RES,CHIP	200 0.50% 1/10W
R359	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R430	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R360	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W	R433	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R361	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R438	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R362	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R439	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R363	1-216-025-91	RES,CHIP	100 5% 1/10W	R440	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R364	1-216-041-00	RES,CHIP	470 5% 1/10W	R441	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R365	1-216-295-91	CONDUCTOR, CHIP	0	R442	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R366	1-216-295-91	CONDUCTOR, CHIP	0	R443	1-208-766-11	RES,CHIP	220 0.50% 1/10W
				R445	1-208-765-11	RES,CHIP	200 0.50% 1/10W
				R447	1-216-295-91	CONDUCTOR, CHIP	0
				R448	1-216-295-91	CONDUCTOR, CHIP	0

BR**BM**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R449	1-216-295-91	CONDUCTOR, CHIP	0	C035	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R450	1-216-295-91	CONDUCTOR, CHIP	0	C036	1-126-204-11	ELECT CHIP	47μF 20% 16V
R451	1-216-295-91	CONDUCTOR, CHIP	0	C037	1-126-204-11	ELECT CHIP	47μF 20% 16V
R452	1-216-295-91	CONDUCTOR, CHIP	0	C038	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R453	1-216-295-91	CONDUCTOR, CHIP	0	C039	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R454	1-216-295-91	CONDUCTOR, CHIP	0	C040	1-126-204-11	ELECT CHIP	47μF 20% 16V
R455	1-216-295-91	CONDUCTOR, CHIP	0	C042	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
R456	1-216-295-91	CONDUCTOR, CHIP	0	C043	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
R457	1-216-295-91	CONDUCTOR, CHIP	0	C044	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
R458	1-216-295-91	CONDUCTOR, CHIP	0	C045	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R459	1-208-786-11	RES,CHIP 1.5K	0.50% 1/10W	C046	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
R462	1-216-295-91	CONDUCTOR, CHIP	0	C047	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R463	1-216-295-91	CONDUCTOR, CHIP	0	C050	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
R464	1-216-295-91	CONDUCTOR, CHIP	0	C052	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R466	1-216-295-91	CONDUCTOR, CHIP	0	C053	1-126-204-11	ELECT CHIP	47μF 20% 16V
R468	1-208-778-11	RES,CHIP 680	0.50% 1/10W	C054	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R469	1-208-778-11	RES,CHIP 680	0.50% 1/10W	C055	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R470	1-208-770-11	RES,CHIP 330	0.50% 1/10W	C056	1-126-204-11	ELECT CHIP	47μF 20% 16V
R471	1-208-770-11	RES,CHIP 330	0.50% 1/10W	C058	1-164-005-11	CERAMIC CHIP	0.47μF 16V

* A-1131-320-A BM BOARD, COMPLETE							

<CAPACITOR>							
C001	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C063	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C002	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V	C064	1-126-204-11	ELECT CHIP	47μF 20% 16V
C003	1-104-760-11	CERAMIC CHIP 0.047μF	10% 50V	C066	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C004	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C067	1-164-005-11	CERAMIC CHIP	0.47μF 16V
C005	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C068	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C006	1-126-204-11	ELECT CHIP 47μF	20% 16V	C069	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C009	1-126-204-11	ELECT CHIP 47μF	20% 16V	C070	1-126-204-11	ELECT CHIP	47μF 20% 16V
C010	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C071	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C011	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C072	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C012	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C073	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C013	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C074	1-126-204-11	ELECT CHIP	47μF 20% 16V
C014	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C075	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C015	1-126-204-11	ELECT CHIP 47μF	20% 16V	C076	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C016	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C077	1-126-204-11	ELECT CHIP	47μF 20% 16V
C017	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C078	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C018	1-126-204-11	ELECT CHIP 47μF	20% 16V	C081	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C019	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C082	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C021	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C083	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C022	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C084	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C023	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C085	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C024	1-126-204-11	ELECT CHIP 47μF	20% 16V	C086	1-126-204-11	ELECT CHIP	47μF 20% 16V
C025	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C087	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C026	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C089	1-163-237-11	CERAMIC CHIP	27PF 5% 50V
C028	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C090	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C030	1-124-779-00	ELECT CHIP 10μF	20% 16V	C091	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C031	1-164-346-11	CERAMIC CHIP 1μF	16V	C092	1-126-204-11	ELECT CHIP	47μF 20% 16V
C032	1-164-346-11	CERAMIC CHIP 1μF	16V	C093	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C034	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C094	1-163-038-91	CERAMIC CHIP	0.1μF 25V
				C095	1-163-038-91	CERAMIC CHIP	0.1μF 25V
				C096	1-163-038-91	CERAMIC CHIP	0.1μF 25V
				C097	1-163-038-91	CERAMIC CHIP	0.1μF 25V
				C098	1-126-204-11	ELECT CHIP	47μF 20% 16V
				C100	1-163-038-91	CERAMIC CHIP	0.1μF 25V
				C101	1-163-038-91	CERAMIC CHIP	0.1μF 25V

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK			
C102	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C160	1-126-204-11	ELECT CHIP	47μF	20%	16V
C103	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C161	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C104	1-126-204-11	ELECT CHIP	47μF	20%	16V					
C105	1-163-038-91	CERAMIC CHIP	0.1μF	25V				<CONNECTOR>		
C106	1-126-204-11	ELECT CHIP	47μF	20%	16V					
C107	1-163-038-91	CERAMIC CHIP	0.1μF	25V	CN001	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P			
C108	1-163-038-91	CERAMIC CHIP	0.1μF	25V	CN002	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P			
C109	1-163-038-91	CERAMIC CHIP	0.1μF	25V				<DIODE>		
C110	1-124-779-00	ELECT CHIP	10μF	20%	16V					
C111	1-124-779-00	ELECT CHIP	10μF	20%	16V	D001	8-719-404-49	DIODE MA111		
C112	1-163-038-91	CERAMIC CHIP	0.1μF	25V	D002	8-719-404-49	DIODE MA111			
C113	1-163-038-91	CERAMIC CHIP	0.1μF	25V	D003	8-719-404-49	DIODE MA111			
C114	1-163-038-91	CERAMIC CHIP	0.1μF	25V				<FILTER>		
C115	1-163-038-91	CERAMIC CHIP	0.1μF	25V	FL001	1-233-505-21	FILTER, LOW PASS			
C116	1-126-204-11	ELECT CHIP	47μF	20%	16V	FL002	1-233-504-21	FILTER, LOW PASS		
C117	1-163-038-91	CERAMIC CHIP	0.1μF	25V	FL003	1-233-504-21	FILTER, LOW PASS			
C118	1-163-038-91	CERAMIC CHIP	0.1μF	25V	FL007	1-233-505-21	FILTER, LOW PASS			
C119	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	FL008	1-233-945-21	FILTER, LOW PASS		
C120	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V	FL009	1-233-944-21	FILTER, LOW PASS		
C121	1-163-038-91	CERAMIC CHIP	0.1μF	25V	FL010	1-233-504-21	FILTER, LOW PASS			
C122	1-124-779-00	ELECT CHIP	10μF	20%	16V	FL011	1-233-944-21	FILTER, LOW PASS		
C123	1-163-038-91	CERAMIC CHIP	0.1μF	25V	FL012	1-233-504-21	FILTER, LOW PASS			
C124	1-126-204-11	ELECT CHIP	47μF	20%	16V			<IC>		
C125	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC001	8-759-467-22	IC MSM548331TS-K			
C126	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC002	8-759-295-09	IC TLC2932IPW			
C127	1-126-204-11	ELECT CHIP	47μF	20%	16V	IC003	8-752-388-99	IC CXD2303AQ-TL		
C128	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	IC004	8-759-485-79	IC TC7SET08FU(TE85L)		
C129	1-126-204-11	ELECT CHIP	47μF	20%	16V	IC005	8-759-527-74	IC M24C02-MN6T		
C130	1-124-779-00	ELECT CHIP	10μF	20%	16V	IC006	8-759-352-91	IC PST9143NL		
C131	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC007	8-759-485-79	IC TC7SET08FU(TE85L)			
C132	1-126-204-11	ELECT CHIP	47μF	20%	16V	IC008	8-759-295-09	IC TLC2932IPW		
C133	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC009	8-752-900-80	IC CXP85840A-015Q-TL			
C134	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC010	8-752-392-55	IC CXD2079Q			
C135	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC011	8-759-295-09	IC TLC2932IPW			
C136	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC012	8-759-485-79	IC TC7SET08FU(TE85L)			
C137	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC013	8-759-467-22	IC MSM548331TS-K			
C138	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC014	8-752-388-99	IC CXD2303AQ-TL			
C141	1-124-779-00	ELECT CHIP	10μF	20%	16V			<COIL>		
C142	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L001	1-414-234-11	INDUCTOR CHIP	0μH		
C143	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L002	1-414-234-11	INDUCTOR CHIP	0μH		
C144	1-126-204-11	ELECT CHIP	47μF	20%	16V	L003	1-414-234-11	INDUCTOR CHIP	0μH	
C145	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L004	1-414-234-11	INDUCTOR CHIP	0μH		
C146	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L005	1-414-234-11	INDUCTOR CHIP	0μH		
C147	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L006	1-414-234-11	INDUCTOR CHIP	0μH		
C148	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L007	1-414-754-11	INDUCTOR	10μH		
C149	1-126-204-11	ELECT CHIP	47μF	20%	16V	L008	1-414-754-11	INDUCTOR	10μH	
C150	1-126-204-11	ELECT CHIP	47μF	20%	16V	L009	1-414-754-11	INDUCTOR	10μH	
C151	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L010	1-414-234-11	INDUCTOR CHIP	0μH		
C152	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L011	1-414-754-11	INDUCTOR	10μH		
C153	1-124-779-00	ELECT CHIP	10μF	20%	16V	L012	1-414-754-11	INDUCTOR	10μH	
C154	1-163-038-91	CERAMIC CHIP	0.1μF	25V						
C155	1-163-038-91	CERAMIC CHIP	0.1μF	25V						
C156	1-124-779-00	ELECT CHIP	10μF	20%	16V					
C157	1-163-038-91	CERAMIC CHIP	0.1μF	25V						
C158	1-126-204-11	ELECT CHIP	47μF	20%	16V					
C159	1-163-038-91	CERAMIC CHIP	0.1μF	25V						



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L013	1-414-234-11	INDUCTOR CHIP	0μH	R022	1-216-049-91	RES,CHIP	1K 5% 1/10W
L014	1-414-754-11	INDUCTOR	10μH	R023	1-208-754-11	RES,CHIP	68 0.50% 1/10W
L015	1-414-234-11	INDUCTOR CHIP	0μH	R024	1-208-776-11	RES,CHIP	560 0.50% 1/10W
L016	1-414-234-11	INDUCTOR CHIP	0μH	R025	1-208-754-11	RES,CHIP	68 0.50% 1/10W
L017	1-414-234-11	INDUCTOR CHIP	0μH	R026	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
L018	1-414-234-11	INDUCTOR CHIP	0μH	R027	1-208-754-11	RES,CHIP	68 0.50% 1/10W
L019	1-414-234-11	INDUCTOR CHIP	0μH	R028	1-208-770-11	RES,CHIP	330 0.50% 1/10W
L020	1-414-234-11	INDUCTOR CHIP	0μH	R029	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
L021	1-414-234-11	INDUCTOR CHIP	0μH	R030	1-216-049-91	RES,CHIP	1K 5% 1/10W
L022	1-414-234-11	INDUCTOR CHIP	0μH	R032	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
L023	1-414-234-11	INDUCTOR CHIP	0μH	R033	1-208-776-11	RES,CHIP	560 0.50% 1/10W
L024	1-414-234-11	INDUCTOR CHIP	0μH	R035	1-216-013-00	RES,CHIP	33 5% 1/10W
L025	1-414-234-11	INDUCTOR CHIP	0μH	R036	1-216-013-00	RES,CHIP	33 5% 1/10W
L026	1-414-234-11	INDUCTOR CHIP	0μH	R037	1-216-033-00	RES,CHIP	220 5% 1/10W
L027	1-414-234-11	INDUCTOR CHIP	0μH	R038	1-208-754-11	RES,CHIP	68 0.50% 1/10W
L028	1-414-234-11	INDUCTOR CHIP	0μH	R039	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
<TRANSISTOR>				R040	1-208-754-11	RES,CHIP	68 0.50% 1/10W
Q001	8-729-422-27	TRANSISTOR	2SD601A-Q	R042	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q002	8-729-216-22	TRANSISTOR	2SA1162-G	R046	1-216-037-00	RES,CHIP	330 5% 1/10W
Q006	8-729-422-27	TRANSISTOR	2SD601A-Q	R048	1-216-025-91	RES,CHIP	100 5% 1/10W
Q007	8-729-216-22	TRANSISTOR	2SA1162-G	R050	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q009	8-729-422-27	TRANSISTOR	2SD601A-Q	R052	1-208-754-11	RES,CHIP	68 0.50% 1/10W
Q010	8-729-216-22	TRANSISTOR	2SA1162-G	R059	1-216-295-91	CONDUCTOR, CHIP	0
Q018	8-729-216-22	TRANSISTOR	2SA1162-G	R060	1-208-754-11	RES,CHIP	68 0.50% 1/10W
Q019	8-729-422-27	TRANSISTOR	2SD601A-Q	R061	1-216-025-91	RES,CHIP	100 5% 1/10W
Q020	8-729-216-22	TRANSISTOR	2SA1162-G	R064	1-216-041-00	RES,CHIP	470 5% 1/10W
Q021	8-729-216-22	TRANSISTOR	2SA1162-G	R065	1-216-025-91	RES,CHIP	100 5% 1/10W
Q022	8-729-216-22	TRANSISTOR	2SA1162-G	R066	1-216-033-00	RES,CHIP	220 5% 1/10W
Q023	8-729-422-27	TRANSISTOR	2SD601A-Q	R067	1-216-033-00	RES,CHIP	220 5% 1/10W
Q025	8-729-216-22	TRANSISTOR	2SA1162-G	R070	1-216-033-00	RES,CHIP	220 5% 1/10W
Q026	8-729-216-22	TRANSISTOR	2SA1162-G	R072	1-216-295-91	CONDUCTOR, CHIP	0
Q027	8-729-216-22	TRANSISTOR	2SA1162-G	R073	1-216-295-91	CONDUCTOR, CHIP	0
Q028	8-729-216-22	TRANSISTOR	2SA1162-G	R074	1-216-295-91	CONDUCTOR, CHIP	0
Q029	8-729-422-27	TRANSISTOR	2SD601A-Q	R075	1-216-295-91	CONDUCTOR, CHIP	0
Q030	8-729-216-22	TRANSISTOR	2SA1162-G	R076	1-216-295-91	CONDUCTOR, CHIP	0
Q031	8-729-422-27	TRANSISTOR	2SD601A-Q	R077	1-216-295-91	CONDUCTOR, CHIP	0
Q032	1-801-806-11	TRANSISTOR	DTC144EKA-T146	R078	1-208-797-11	RES,CHIP	4.3K 0.50% 1/10W
<RESISTOR>				R079	1-216-025-91	RES,CHIP	100 5% 1/10W
R001	1-216-117-00	RES,CHIP	680K	R080	1-216-025-91	RES,CHIP	100 5% 1/10W
R002	1-216-051-00	RES,CHIP	1.2K	R081	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R003	1-216-295-91	CONDUCTOR, CHIP	0	R082	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R007	1-216-041-00	RES,CHIP	470	R086	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R008	1-208-800-11	RES,CHIP	5.6K	R087	1-216-117-00	RES,CHIP	680K 5% 1/10W
R009	1-216-049-91	RES,CHIP	1K	R090	1-216-025-91	RES,CHIP	100 5% 1/10W
R010	1-216-295-91	CONDUCTOR, CHIP	0	R091	1-216-295-91	CONDUCTOR, CHIP	0
R012	1-208-794-11	RES,CHIP	3.3K	R093	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R013	1-216-041-00	RES,CHIP	470	R094	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R014	1-208-776-11	RES,CHIP	560	R098	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R016	1-216-013-00	RES,CHIP	33	R099	1-216-117-00	RES,CHIP	680K 5% 1/10W
R018	1-216-295-91	CONDUCTOR, CHIP	0	R100	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R019	1-216-057-00	RES,CHIP	2.2K	R101	1-216-295-91	CONDUCTOR, CHIP	0
R020	1-216-049-91	RES,CHIP	1K	R102	1-216-041-00	RES,CHIP	470 5% 1/10W
R021	1-216-049-91	RES,CHIP	1K	R106	1-216-085-00	RES,CHIP	33K 5% 1/10W
				R107	1-216-295-91	CONDUCTOR, CHIP	0
				R108	1-216-033-00	RES,CHIP	220 5% 1/10W
				R109	1-216-033-00	RES,CHIP	220 5% 1/10W

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

BM

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R110	1-216-033-00	RES,CHIP	220 5% 1/10W	R177	1-216-049-91	RES,CHIP	1K 5% 1/10W
R111	1-216-033-00	RES,CHIP	220 5% 1/10W	R178	1-216-025-91	RES,CHIP	100 5% 1/10W
R112	1-216-049-91	RES,CHIP	1K 5% 1/10W	R181	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R113	1-216-033-00	RES,CHIP	220 5% 1/10W	R182	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R118	1-216-025-91	RES,CHIP	100 5% 1/10W	R183	1-216-049-91	RES,CHIP	1K 5% 1/10W
R119	1-216-085-00	RES,CHIP	33K 5% 1/10W	R185	1-216-049-91	RES,CHIP	1K 5% 1/10W
R120	1-216-295-91	CONDUCTOR, CHIP	0	R194	1-216-295-91	CONDUCTOR, CHIP	0
R121	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R195	1-216-049-91	RES,CHIP	1K 5% 1/10W
R122	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R198	1-216-025-91	RES,CHIP	100 5% 1/10W
R123	1-216-025-91	RES,CHIP	100 5% 1/10W	R200	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R124	1-216-049-91	RES,CHIP	1K 5% 1/10W	R201	1-216-033-00	RES,CHIP	220 5% 1/10W
R125	1-208-762-11	RES,CHIP	150 0.50% 1/10W	R202	1-216-037-00	RES,CHIP	330 5% 1/10W
R127	1-216-049-91	RES,CHIP	1K 5% 1/10W	R203	1-216-049-91	RES,CHIP	1K 5% 1/10W
R128	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R204	1-216-049-91	RES,CHIP	1K 5% 1/10W
R129	1-216-025-91	RES,CHIP	100 5% 1/10W	R205	1-216-049-91	RES,CHIP	1K 5% 1/10W
R130	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R206	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R131	1-216-033-00	RES,CHIP	220 5% 1/10W	R207	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R132	1-216-025-91	RES,CHIP	100 5% 1/10W	R208	1-208-770-11	RES,CHIP	330 0.50% 1/10W
R133	1-216-025-91	RES,CHIP	100 5% 1/10W	R210	1-216-013-00	RES,CHIP	33 5% 1/10W
R134	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R212	1-216-013-00	RES,CHIP	33 5% 1/10W
R135	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R214	1-216-041-00	RES,CHIP	470 5% 1/10W
R136	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R215	1-216-295-91	CONDUCTOR, CHIP	0
R137	1-208-769-11	RES,CHIP	300 0.50% 1/10W	R216	1-208-794-11	RES,CHIP	3.3K 0.50% 1/10W
R138	1-208-770-11	RES,CHIP	330 0.50% 1/10W	R217	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R139	1-216-025-91	RES,CHIP	100 5% 1/10W	R218	1-216-117-00	RES,CHIP	680K 5% 1/10W
R140	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R219	1-216-013-00	RES,CHIP	33 5% 1/10W
R141	1-216-117-00	RES,CHIP	680K 5% 1/10W	R220	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R142	1-208-782-11	RES,CHIP	1K 0.50% 1/10W	R221	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R143	1-216-049-91	RES,CHIP	1K 5% 1/10W	R222	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R144	1-216-041-00	RES,CHIP	470 5% 1/10W	R223	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R145	1-216-085-00	RES,CHIP	33K 5% 1/10W	R226	1-216-295-91	CONDUCTOR, CHIP	0
R146	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W	R227	1-216-295-91	CONDUCTOR, CHIP	0
R147	1-216-049-91	RES,CHIP	1K 5% 1/10W	R228	1-216-295-91	CONDUCTOR, CHIP	0
R148	1-208-769-11	RES,CHIP	300 0.50% 1/10W	R229	1-216-295-91	CONDUCTOR, CHIP	0
R149	1-216-025-91	RES,CHIP	100 5% 1/10W	R230	1-216-295-91	CONDUCTOR, CHIP	0
R150	1-208-762-11	RES,CHIP	150 0.50% 1/10W	R231	1-216-295-91	CONDUCTOR, CHIP	0
R151	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R232	1-216-295-91	CONDUCTOR, CHIP	0
R153	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R233	1-216-295-91	CONDUCTOR, CHIP	0
R154	1-216-025-91	RES,CHIP	100 5% 1/10W	R234	1-216-295-91	CONDUCTOR, CHIP	0
R155	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W	R235	1-216-295-91	CONDUCTOR, CHIP	0
R156	1-208-774-11	RES,CHIP	470 0.50% 1/10W	R236	1-216-295-91	CONDUCTOR, CHIP	0
R157	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R237	1-216-295-91	CONDUCTOR, CHIP	0
R159	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R238	1-216-295-91	CONDUCTOR, CHIP	0
R160	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R239	1-216-295-91	CONDUCTOR, CHIP	0
R161	1-216-295-91	CONDUCTOR, CHIP	0	R240	1-216-295-91	CONDUCTOR, CHIP	0
R163	1-208-762-11	RES,CHIP	150 0.50% 1/10W	R241	1-216-295-91	CONDUCTOR, CHIP	0
R164	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R242	1-216-295-91	CONDUCTOR, CHIP	0
R165	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W	R243	1-216-295-91	CONDUCTOR, CHIP	0
R166	1-216-049-91	RES,CHIP	1K 5% 1/10W	R244	1-216-295-91	CONDUCTOR, CHIP	0
R167	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R245	1-216-295-91	CONDUCTOR, CHIP	0
R170	1-216-019-00	RES,CHIP	56 5% 1/10W	R246	1-216-295-91	CONDUCTOR, CHIP	0
R171	1-216-121-91	RES,CHIP	1M 5% 1/10W	R247	1-216-295-91	CONDUCTOR, CHIP	0
R172	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R248	1-216-295-91	CONDUCTOR, CHIP	0
R173	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R249	1-216-295-91	CONDUCTOR, CHIP	0
R175	1-216-049-91	RES,CHIP	1K 5% 1/10W	R250	1-216-295-91	CONDUCTOR, CHIP	0
R176	1-216-049-91	RES,CHIP	1K 5% 1/10W	R251	1-216-295-91	CONDUCTOR, CHIP	0
				R252	1-216-295-91	CONDUCTOR, CHIP	0

BM**A**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R253	1-216-295-91	CONDUCTOR, CHIP	0	C533	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R254	1-216-049-91	RES,CHIP 1K	5% 1/10W	C534	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R257	1-216-295-91	CONDUCTOR, CHIP	0	C535	1-104-665-11	ELECT	100μF 20% 25V
R258	1-216-049-91	RES,CHIP 1K	5% 1/10W	C536	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
R259	1-216-295-91	CONDUCTOR, CHIP	0	C537	1-104-664-11	ELECT	47μF 20% 25V
R260	1-216-295-91	CONDUCTOR, CHIP	0	C538	1-126-964-11	ELECT	10μF 20% 50V
R261	1-216-295-91	CONDUCTOR, CHIP	0	C539	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R262	1-216-295-91	CONDUCTOR, CHIP	0	C540	1-126-918-11	ELECT	4700μF 20% 6.3V
R263	1-216-295-91	CONDUCTOR, CHIP	0	C541	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R273	1-216-033-00	RES,CHIP 220	5% 1/10W	C542	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R274	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	C543	1-126-960-11	ELECT	1μF 20% 50V
		<CRYSTAL>		C545	1-126-964-11	ELECT	10μF 20% 50V
X001	1-767-924-21	VIBRATOR, CRYSTAL		C546	1-163-145-00	CERAMIC CHIP	0.0015μF 5% 50V
X002	1-767-654-21	VIBRATOR, CRYSTAL		C548	1-163-012-00	CERAMIC CHIP	0.0018μF 5% 50V
		*****		C550	1-163-127-00	CERAMIC CHIP	270PF 5% 50V
		* A-1298-500-A A BOARD, COMPLETE		C551	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C552	1-126-934-11	ELECT	220μF 20% 16V
		4-382-854-11 SCREW (M3X10), P, SW (+)		C553	1-126-960-11	ELECT	1μF 20% 50V
		*****		C554	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V
		*****		C555	1-163-259-91	CERAMIC CHIP	220PF 5% 50V
		*****		C557	1-126-960-11	ELECT	1μF 20% 50V
		*****		C558	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
		*****		C559	1-126-963-11	ELECT	4.7μF 20% 50V
		*****		C560	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C561	1-104-664-11	ELECT	47μF 20% 25V
		*****		C562	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C563	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C564	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C567	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
		*****		C569	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V
		*****		C570	1-163-259-91	CERAMIC CHIP	220PF 5% 50V
		*****		C571	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
		*****		C572	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C574	1-126-960-11	ELECT	1μF 20% 50V
		*****		C575	1-109-982-11	CERAMIC CHIP	1μF 10% 10V
		*****		C576	1-164-182-11	CERAMIC CHIP	0.0033μF 10% 50V
		*****		C577	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C580	1-164-182-11	CERAMIC CHIP	0.0033μF 10% 50V
		*****		C581	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C582	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
		*****		C583	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
		*****		C584	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C585	1-126-933-11	ELECT	100μF 20% 16V
		*****		C586	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C587	1-104-664-11	ELECT	47μF 20% 25V
		*****		C588	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C589	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C590	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C591	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C592	1-104-664-11	ELECT	47μF 20% 25V
		*****		C593	1-126-964-11	ELECT	10μF 20% 50V
		*****		C595	1-163-038-91	CERAMIC CHIP	0.1μF 25V
		*****		C596	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
		*****		C598	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
		*****		C599	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
		*****		C600	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

A

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
C601	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V	C665	1-104-664-11	ELECT	47μF	20%	25V
C602	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C666	1-165-319-11	CERAMIC CHIP	0.1μF	50%	
C603	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C667	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C604	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C668	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C605	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C669	1-126-935-11	ELECT	470μF	20%	16V
C606	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C670	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C607	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C671	1-104-664-11	ELECT	47μF	20%	25V
C608	1-126-964-11	ELECT	10μF	20%	50V	C672	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C610	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C673	1-126-965-11	ELECT	22μF	20%	50V
C611	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C675	1-110-501-11	CERAMIC CHIP	0.33μF	10%	16V
C612	1-104-664-11	ELECT	47μF	20%	25V	C676	1-104-664-11	ELECT	47μF	20%	25V
C613	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C677	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C614	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C678	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C615	1-126-933-11	ELECT	100μF	20%	16V	C683	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C616	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C685	1-126-960-11	ELECT	1μF	20%	50V
C617	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C686	1-126-965-11	ELECT	22μF	20%	50V
C618	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C687	1-126-960-11	ELECT	1μF	20%	50V
C619	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C688	1-126-960-11	ELECT	1μF	20%	50V
C621	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C689	1-126-965-11	ELECT	22μF	20%	50V
C622	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C690	1-126-960-11	ELECT	1μF	20%	50V
C623	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C691	1-126-964-11	ELECT	10μF	20%	50V
C624	1-104-664-11	ELECT	47μF	20%	25V	C692	1-126-964-11	ELECT	10μF	20%	50V
C625	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C693	1-126-965-11	ELECT	22μF	20%	50V
C626	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C694	1-126-965-11	ELECT	22μF	20%	50V
C627	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C696	1-126-965-11	ELECT	22μF	20%	50V
C628	1-104-664-11	ELECT	47μF	20%	25V	C697	1-126-965-11	ELECT	22μF	20%	50V
C629	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C698	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C630	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C699	1-126-965-11	ELECT	22μF	20%	50V
C631	1-164-346-11	CERAMIC CHIP	1μF		16V	C700	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C632	1-109-982-11	CERAMIC CHIP	1μF	10%	10V	C701	1-126-965-11	ELECT	22μF	20%	50V
C636	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C702	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C637	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C703	1-126-965-11	ELECT	22μF	20%	50V
C638	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V	C704	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C639	1-126-933-11	ELECT	100μF	20%	16V	C706	1-126-965-11	ELECT	22μF	20%	50V
C640	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C707	1-126-960-11	ELECT	1μF	20%	50V
C641	1-104-664-11	ELECT	47μF	20%	25V	C708	1-126-960-11	ELECT	1μF	20%	50V
C642	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C709	1-126-965-11	ELECT	22μF	20%	50V
C643	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C710	1-126-960-11	ELECT	1μF	20%	50V
C644	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C711	1-126-960-11	ELECT	1μF	20%	50V
C646	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C712	1-126-965-11	ELECT	22μF	20%	50V
C647	1-104-664-11	ELECT	47μF	20%	25V	C713	1-126-960-11	ELECT	1μF	20%	50V
C648	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C714	1-126-960-11	ELECT	1μF	20%	50V
C649	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C715	1-126-965-11	ELECT	22μF	20%	50V
C650	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C716	1-126-960-11	ELECT	1μF	20%	50V
C651	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C717	1-126-960-11	ELECT	1μF	20%	50V
C652	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C718	1-126-935-11	ELECT	470μF	20%	16V
C653	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C771	1-126-965-11	ELECT	22μF	20%	50V
C654	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C772	1-126-965-11	ELECT	22μF	20%	50V
C655	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C773	1-126-960-11	ELECT	1μF	20%	50V
C656	1-126-964-11	ELECT	10μF	20%	50V	C774	1-126-960-11	ELECT	1μF	20%	50V
C657	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V	C775	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C658	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1001	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C659	1-104-664-11	ELECT	47μF	20%	25V	C1002	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C660	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V	C1003	1-104-664-11	ELECT	47μF	20%	25V
C661	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1005	1-104-664-11	ELECT	47μF	20%	25V
C664	1-104-664-11	ELECT	47μF	20%	25V	C1006	1-163-038-91	CERAMIC CHIP	0.1μF		25V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1007	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1326	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1012	1-163-235-11	CERAMIC CHIP	22PF 5% 50V	C1327	1-126-963-11	ELECT	4.7μF 20% 50V
C1013	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1328	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1014	1-163-235-11	CERAMIC CHIP	22PF 5% 50V	C1329	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1015	1-163-235-11	CERAMIC CHIP	22PF 5% 50V	C1330	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1016	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1331	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C1017	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1332	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C1020	1-164-346-11	CERAMIC CHIP	1μF 16V	C1334	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1022	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1335	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1023	1-126-935-11	ELECT	470μF 20% 6.3V	C1336	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1025	1-126-965-11	ELECT	22μF 20% 50V	C1337	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1026	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V	C1338	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1027	1-110-501-11	CERAMIC CHIP	0.33μF 10% 16V	C1339	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1029	1-164-346-11	CERAMIC CHIP	1μF 16V	C1340	1-126-960-11	ELECT	1μF 20% 50V
C1030	1-109-982-11	CERAMIC CHIP	1μF 10% 10V	C1341	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C1031	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1342	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C1032	1-104-664-11	ELECT	47μF 20% 25V	C1343	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1033	1-126-964-11	ELECT	10μF 20% 50V	C1344	1-104-664-11	ELECT	47μF 20% 25V
C1034	1-164-346-11	CERAMIC CHIP	1μF 16V	C1345	1-104-664-11	ELECT	47μF 20% 25V
C1035	1-163-237-11	CERAMIC CHIP	27PF 5% 50V	C1346	1-104-664-11	ELECT	47μF 20% 25V
C1036	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C1347	1-104-664-11	ELECT	47μF 20% 25V
C1037	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1348	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1038	1-104-664-11	ELECT	47μF 20% 25V	C1349	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C1039	1-164-346-11	CERAMIC CHIP	1μF 16V	C1351	1-126-934-11	ELECT	220μF 20% 16V
C1040	1-163-237-11	CERAMIC CHIP	27PF 5% 50V	C1352	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1041	1-163-099-00	CERAMIC CHIP	18PF 5% 50V	C1353	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1042	1-163-099-00	CERAMIC CHIP	18PF 5% 50V	C1354	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1043	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C1355	1-104-664-11	ELECT	47μF 20% 25V
C1044	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C1357	1-126-934-11	ELECT	220μF 20% 16V
C1045	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C1358	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1046	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1359	1-104-664-11	ELECT	47μF 20% 25V
C1048	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1363	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1049	1-104-664-11	ELECT	47μF 20% 25V	C1364	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1050	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1365	1-104-664-11	ELECT	47μF 20% 25V
C1051	1-104-664-11	ELECT	47μF 20% 25V	C1366	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1052	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C1370	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C1301	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1376	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1302	1-104-664-11	ELECT	47μF 20% 25V	C1380	1-109-982-11	CERAMIC CHIP	1μF 10% 10V
C1303	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1381	1-163-137-00	CERAMIC CHIP	680PF 5% 50V
C1304	1-165-319-11	CERAMIC CHIP	0.1μF 50V	C1382	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1305	1-165-319-11	CERAMIC CHIP	0.1μF 50V	C1383	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1306	1-165-319-11	CERAMIC CHIP	0.1μF 50V	C1384	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C1307	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C1385	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C1309	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V	C1386	1-165-319-11	CERAMIC CHIP	0.1μF 50V
C1310	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V	C1388	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1311	1-109-982-11	CERAMIC CHIP	1μF 10% 10V	C1389	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C1312	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V	C1392	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C1313	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1394	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C1314	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1398	1-126-964-11	ELECT	10μF 20% 50V
C1315	1-163-137-00	CERAMIC CHIP	680PF 5% 50V	C1399	1-109-982-11	CERAMIC CHIP	1μF 10% 10V
C1316	1-104-664-11	ELECT	47μF 20% 25V	C1400	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C1318	1-104-664-11	ELECT	47μF 20% 25V	C1401	1-126-963-11	ELECT	4.7μF 20% 50V
C1319	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1403	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C1321	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	C1405	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C1323	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C1406	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C1325	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C1407	1-104-664-11	ELECT	47μF 20% 25V

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
C1408	1-104-664-11	ELECT	47μF	20%	25V	C1472	1-104-664-11	ELECT	47μF	20%	25V
C1409	1-163-249-11	CERAMIC CHIP	82PF	5%	50V	C1475	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1410	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C1477	1-104-664-11	ELECT	47μF	20%	25V
C1411	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1478	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1413	1-126-960-11	ELECT	1μF	20%	50V	C1479	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1414	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C1480	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1415	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1481	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1417	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1482	1-104-664-11	ELECT	47μF	20%	25V
C1418	1-104-664-11	ELECT	47μF	20%	25V	C1483	1-104-664-11	ELECT	47μF	20%	25V
C1419	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1484	1-126-934-11	ELECT	220μF	20%	16V
C1422	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	C1485	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1423	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1486	1-104-664-11	ELECT	47μF	20%	25V
C1424	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1487	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1425	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1488	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1426	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1489	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1427	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1490	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1428	1-126-934-11	ELECT	220μF	20%	16V	C1491	1-126-960-11	ELECT	1μF	20%	50V
C1429	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1492	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1430	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1493	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1431	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1494	1-126-961-11	ELECT	2.2μF	20%	50V
C1432	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1495	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1433	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C1496	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1434	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1497	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C1435	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1498	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C1436	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	C1601	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1437	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1602	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V
C1438	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1603	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V
C1439	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1604	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V
C1442	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1605	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V
C1444	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1606	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1445	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1608	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V
C1446	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1609	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V
C1447	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1610	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1448	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C1611	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V
C1449	1-126-964-11	ELECT	10μF	20%	50V	C1612	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V
C1450	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	C1613	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1451	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1614	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1452	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1615	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1453	1-164-505-11	CERAMIC CHIP	2.2μF		16V	C1617	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1454	1-126-935-11	ELECT	470μF	20%	6.3V	C1619	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1455	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1621	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1456	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1623	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1457	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1624	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1458	1-164-505-11	CERAMIC CHIP	2.2μF		16V	C1626	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1460	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1628	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1461	1-164-505-11	CERAMIC CHIP	2.2μF		16V	C1629	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1462	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1631	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1463	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1633	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1464	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1634	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1465	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V			<FILTER BLOCK>			
C1466	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V			<CONNECTOR>			
C1467	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	CM501	1-467-554-21	FILTER BLOCK, COMB			
C1468	1-163-038-91	CERAMIC CHIP	0.1μF		25V						
C1469	1-163-121-00	CERAMIC CHIP	150PF	5%	50V						
C1470	1-104-664-11	ELECT	47μF	20%	25V						
C1471	1-104-664-11	ELECT	47μF	20%	25V	CN501	* 1-564-506-11	PLUG, CONNECTOR 3P			

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
CN502	* 1-564-506-11	PLUG, CONNECTOR 3P		D532	8-719-977-28	DIODE DTZ10B					
CN503	* 1-564-511-11	PLUG, CONNECTOR 8P		D533	8-719-977-28	DIODE DTZ10B					
CN504	* 1-564-512-11	PLUG, CONNECTOR 9P		D534	8-719-977-28	DIODE DTZ10B					
CN505	* 1-564-510-11	PLUG, CONNECTOR 7P		D536	8-719-404-49	DIODE MA111					
CN506	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		D537	8-719-977-28	DIODE DTZ10B					
CN507	1-695-915-11	TAB (CONTACT)		D538	8-719-977-28	DIODE DTZ10B					
CN508	* 1-564-507-11	PLUG, CONNECTOR 4P		D539	8-719-977-28	DIODE DTZ10B					
CN509	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		D540	8-719-977-28	DIODE DTZ10B					
CN510	* 1-564-510-11	PLUG, CONNECTOR 7P		D541	8-719-977-28	DIODE DTZ10B					
CN511	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		D542	8-719-977-28	DIODE DTZ10B					
CN512	1-564-513-11	PLUG, CONNECTOR 10P		D543	8-719-977-28	DIODE DTZ10B					
CN513	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		D544	8-719-977-28	DIODE DTZ10B					
CN514	* 1-564-509-11	PLUG, CONNECTOR 6P		D545	8-719-977-28	DIODE DTZ10B					
CN515	* 1-564-514-11	PLUG, CONNECTOR 11P		D547	8-719-977-28	DIODE DTZ10B					
CN516	1-573-978-21	CONNECTOR, BOARD TO BOARD 11P		D550	8-719-977-28	DIODE DTZ10B					
CN517	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		D551	8-719-977-28	DIODE DTZ10B					
CN518	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		D552	8-719-977-28	DIODE DTZ10B					
CN519	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		D553	8-719-977-28	DIODE DTZ10B					
CN521	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P		D555	8-719-977-28	DIODE DTZ10B					
CN522	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		D556	8-719-977-28	DIODE DTZ10B					
CN523	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		D557	8-719-977-28	DIODE DTZ10B					
CN524	* 1-564-509-11	PLUG, CONNECTOR 6P		D558	8-719-977-81	DIODE DTZ33B					
CN525	* 1-564-511-11	PLUG, CONNECTOR 8P		D559	8-719-977-28	DIODE DTZ10B					
CN526	* 1-564-510-11	PLUG, CONNECTOR 7P		D560	8-719-977-28	DIODE DTZ10B					
<DIODE>											
D501	8-719-404-49	DIODE MA111		D1001	8-719-404-49	DIODE MA111					
D502	8-719-158-15	DIODE RD5.6SB		D1002	8-719-404-49	DIODE MA111					
D503	8-719-404-49	DIODE MA111		D1005	8-719-404-49	DIODE MA111					
D504	8-719-404-49	DIODE MA111		D1006	8-719-404-49	DIODE MA111					
D505	8-719-404-49	DIODE MA111		D1007	8-719-404-49	DIODE MA111					
D506	8-719-056-84	DIODE UDZ-TE-17-7.5B		D1008	8-719-404-49	DIODE MA111					
D507	8-719-404-49	DIODE MA111		D1009	8-719-404-49	DIODE MA111					
D508	8-719-404-49	DIODE MA111		D1601	8-719-976-99	DIODE DTZ5.1B					
D509	8-719-056-84	DIODE UDZ-TE-17-7.5B		D1602	8-719-976-99	DIODE DTZ5.1B					
D510	8-719-056-84	DIODE UDZ-TE-17-7.5B		D1603	8-719-976-99	DIODE DTZ5.1B					
D511	8-719-404-49	DIODE MA111		D1604	8-719-976-99	DIODE DTZ5.1B					
D512	8-719-404-49	DIODE MA111		D1605	8-719-976-99	DIODE DTZ5.1B					
D513	8-719-404-49	DIODE MA111		D1614	8-719-976-99	DIODE DTZ5.1B					
D514	8-719-404-49	DIODE MA111		D1615	8-719-976-99	DIODE DTZ5.1B					
D515	8-719-158-15	DIODE RD5.6SB		D1616	8-719-976-99	DIODE DTZ5.1B					
D516	8-719-158-15	DIODE RD5.6SB		D1618	8-719-404-49	DIODE MA111					
D517	8-719-158-15	DIODE RD5.6SB		D1620	8-719-404-49	DIODE MA111					
D518	8-719-977-28	DIODE DTZ10B		D1623	8-719-404-49	DIODE MA111					
D519	8-719-977-28	DIODE DTZ10B		D1625	8-719-404-49	DIODE MA111					
D520	8-719-977-28	DIODE DTZ10B		D1626	8-719-404-49	DIODE MA111					
D521	8-719-404-49	DIODE MA111		D1628	8-719-404-49	DIODE MA111					
D523	8-719-404-49	DIODE MA111		D1630	8-719-404-49	DIODE MA111					
D524	8-719-977-28	DIODE DTZ10B		D1632	8-719-404-49	DIODE MA111					
D525	8-719-977-28	DIODE DTZ10B		<FILTER>							
D526	8-719-977-28	DIODE DTZ10B		FL1301	1-239-847-11	FILTER, LOW PASS					
D527	8-719-977-28	DIODE DTZ10B		FL1302	1-239-847-11	FILTER, LOW PASS					
D528	8-719-977-28	DIODE DTZ10B		FL1303	1-239-847-11	FILTER, LOW PASS					
D529	8-719-977-28	DIODE DTZ10B		FL1304	1-239-847-11	FILTER, LOW PASS					
D530	8-719-977-28	DIODE DTZ10B									
D531	8-719-977-28	DIODE DTZ10B									

KP-53XBR200/61XBR200
RM-Y902 RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<IC>							
IC501	8-759-231-58	IC TA7812S		L510	1-414-856-11	INDUCTOR	10μH
IC503	8-759-450-47	IC BA05T		L511	1-414-856-11	INDUCTOR	10μH
IC504	8-759-513-71	IC PQ05RF21		L512	1-414-856-11	INDUCTOR	10μH
IC505	8-759-198-03	IC PQ09RF21		L513	1-414-234-11	INDUCTOR CHIP	0μH
IC506	8-759-520-49	IC PQ30RV21		L514	1-414-856-11	INDUCTOR	10μH
IC507	8-759-083-85	IC LA7856A		L515	1-414-856-11	INDUCTOR	10μH
IC508	8-759-367-69	IC MC74HC74AFEL		L517	1-414-234-11	INDUCTOR CHIP	0μH
IC509	8-759-011-64	IC MCT74HC4052F		L518	1-414-234-11	INDUCTOR CHIP	0μH
IC510	8-759-988-13	IC LM393PS		L519	1-414-234-11	INDUCTOR CHIP	0μH
IC511	8-752-086-33	IC CXA2101AQ-TL		L520	1-414-234-11	INDUCTOR CHIP	0μH
IC512	8-752-379-93	IC CXD2018AQ-T6		L523	1-414-856-11	INDUCTOR	10μH
IC514	8-759-998-98	IC LM358D		L1001	1-414-234-11	INDUCTOR CHIP	0μH
IC515	8-752-066-69	IC CXA1845Q		L1002	1-414-234-11	INDUCTOR CHIP	0μH
IC516	8-759-242-76	IC TC7W08F		L1004	1-414-754-11	INDUCTOR	10μH
IC517	8-759-239-34	IC TC74HC4538AF		L1005	1-414-754-11	INDUCTOR	10μH
IC1001	8-759-544-58	IC LH5317XX		L1006	1-414-754-11	INDUCTOR	10μH
IC1002	8-759-927-72	IC TL1591CP		L1008	1-414-754-11	INDUCTOR	10μH
IC1003	8-759-925-75	IC SN74HC05ANS		L1009	1-414-234-11	INDUCTOR CHIP	0μH
IC1004	8-759-544-57	IC MB90091A-146		L1301	1-414-234-11	INDUCTOR CHIP	0μH
IC1005	8-759-352-91	IC PST9143NL		L1302	1-414-234-11	INDUCTOR CHIP	0μH
IC1007	8-759-527-76	IC M24C08-MN6T		L1303	1-414-234-11	INDUCTOR CHIP	0μH
IC1008	8-752-900-81	IC CXP85848A-016Q-TL		L1304	1-414-234-11	INDUCTOR CHIP	0μH
IC1009	8-752-899-97	IC CXP85340A-256Q-TL		L1305	1-414-234-11	INDUCTOR CHIP	0μH
IC1010	8-759-352-91	IC PST9143NL		L1306	1-414-234-11	INDUCTOR CHIP	0μH
IC1301	8-752-086-80	IC CXA2019AQ-T4		L1307	1-414-234-11	INDUCTOR CHIP	0μH
IC1302	8-752-082-49	IC CXA2119M		L1308	1-414-234-11	INDUCTOR CHIP	0μH
IC1304	8-759-473-05	IC UPD424210LE-60-E2		L1309	1-412-006-31	INDUCTOR CHIP	10μH
IC1305	8-752-086-80	IC CXA2019AQ-T4		L1310	1-414-234-11	INDUCTOR CHIP	0μH
IC1306	8-759-536-12	IC UPD64081BGF-3BA		L1311	1-414-234-11	INDUCTOR CHIP	0μH
IC1307	8-752-082-49	IC CXA2119M		L1313	1-412-006-31	INDUCTOR CHIP	10μH
IC1309	8-759-161-24	IC UPC659AGS-E2		L1314	1-414-234-11	INDUCTOR CHIP	0μH
IC1601	8-759-394-80	IC NJM2058M-TE2		L1315	1-414-234-11	INDUCTOR CHIP	0μH
IC1603	8-759-009-07	IC MC14053BF		L1316	1-412-006-31	INDUCTOR CHIP	10μH
IC1604	8-759-394-80	IC NJM2058M-TE2		L1317	1-412-006-31	INDUCTOR CHIP	10μH
IC1605	8-759-394-80	IC NJM2058M-TE2		L1319	1-412-006-31	INDUCTOR CHIP	10μH
IC1606	8-759-394-80	IC NJM2058M-TE2		L1320	1-412-006-31	INDUCTOR CHIP	10μH
<JACK>							
J502	1-774-749-11	JACK BLOCK, PIN		L1322	1-414-234-11	INDUCTOR CHIP	0μH
J505	1-774-751-11	TERMINAL BLOCK, S		L1323	1-414-234-11	INDUCTOR CHIP	0μH
J506	1-774-751-11	TERMINAL BLOCK, S		L1324	1-414-234-11	INDUCTOR CHIP	0μH
J507	1-774-751-11	TERMINAL BLOCK, S		L1325	1-412-006-31	INDUCTOR CHIP	10μH
J508	1-774-751-11	TERMINAL BLOCK, S		L1326	1-414-234-11	INDUCTOR CHIP	0μH
<COIL>							
L501	1-414-856-11	INDUCTOR	10μH	L1328	1-412-006-31	INDUCTOR CHIP	10μH
L502	1-414-856-11	INDUCTOR	10μH	L1329	1-412-006-31	INDUCTOR CHIP	10μH
L503	1-414-856-11	INDUCTOR	10μH	L1330	1-412-006-31	INDUCTOR CHIP	10μH
L504	1-414-856-11	INDUCTOR	10μH	L1401	1-414-234-11	INDUCTOR CHIP	0μH
L505	1-414-856-11	INDUCTOR	10μH	L1402	1-414-234-11	INDUCTOR CHIP	0μH
L506	1-414-856-11	INDUCTOR	10μH	L1403	1-414-234-11	INDUCTOR CHIP	0μH
L507	1-414-856-11	INDUCTOR	10μH	L1404	1-414-234-11	INDUCTOR CHIP	0μH
L508	1-414-856-11	INDUCTOR	10μH	L1405	1-414-234-11	INDUCTOR CHIP	0μH
L509	1-414-856-11	INDUCTOR	10μH	L1406	1-414-234-11	INDUCTOR CHIP	0μH
				L1407	1-414-234-11	INDUCTOR CHIP	0μH
				L1408	1-414-234-11	INDUCTOR CHIP	0μH
				L1409	1-414-234-11	INDUCTOR CHIP	0μH
				L1410	1-414-234-11	INDUCTOR CHIP	0μH
				L1411	1-414-234-11	INDUCTOR CHIP	0μH
				L1412	1-414-234-11	INDUCTOR CHIP	0μH

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>							
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		Q1006	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q502	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1008	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q503	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q504	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q505	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q506	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1015	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		Q1018	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q508	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1020	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q509	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1022	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q510	8-729-122-63	TRANSISTOR 2SA1226-E4		Q1301	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q511	8-729-216-22	TRANSISTOR 2SA1162-G		Q1302	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q512	8-729-216-22	TRANSISTOR 2SA1162-G		Q1303	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q513	8-729-216-22	TRANSISTOR 2SA1162-G		Q1304	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q514	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1305	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q515	8-729-216-22	TRANSISTOR 2SA1162-G		Q1306	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q516	8-729-122-63	TRANSISTOR 2SA1226-E4		Q1307	8-729-216-22	TRANSISTOR 2SA1162-G	
Q517	8-729-216-22	TRANSISTOR 2SA1162-G		Q1308	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q518	8-729-216-22	TRANSISTOR 2SA1162-G		Q1309	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q519	8-729-216-22	TRANSISTOR 2SA1162-G		Q1310	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q520	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1311	8-729-216-22	TRANSISTOR 2SA1162-G	
Q521	8-729-216-22	TRANSISTOR 2SA1162-G		Q1312	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q522	8-729-027-38	TRANSISTOR DTA144EKA-T146		Q1313	8-729-216-22	TRANSISTOR 2SA1162-G	
Q523	8-729-216-22	TRANSISTOR 2SA1162-G		Q1314	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q524	8-729-122-63	TRANSISTOR 2SA1226-E4		Q1315	8-729-216-22	TRANSISTOR 2SA1162-G	
Q525	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1316	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q526	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1317	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q527	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1318	8-729-216-22	TRANSISTOR 2SA1162-G	
Q528	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1319	8-729-216-22	TRANSISTOR 2SA1162-G	
Q529	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1320	8-729-216-22	TRANSISTOR 2SA1162-G	
Q531	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1321	8-729-216-22	TRANSISTOR 2SA1162-G	
Q532	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1322	8-729-216-22	TRANSISTOR 2SA1162-G	
Q533	8-729-216-22	TRANSISTOR 2SA1162-G		Q1323	8-729-216-22	TRANSISTOR 2SA1162-G	
Q535	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1324	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q536	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1325	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q537	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1326	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q538	8-729-216-22	TRANSISTOR 2SA1162-G		Q1327	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q539	8-729-216-22	TRANSISTOR 2SA1162-G		Q1328	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q540	8-729-216-22	TRANSISTOR 2SA1162-G		Q1329	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q541	8-729-027-38	TRANSISTOR DTA144EKA-T146		Q1330	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q542	8-729-216-22	TRANSISTOR 2SA1162-G		Q1331	8-729-216-22	TRANSISTOR 2SA1162-G	
Q543	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1332	8-729-216-22	TRANSISTOR 2SA1162-G	
Q544	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1333	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q545	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q1334	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q546	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1335	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q547	8-729-216-22	TRANSISTOR 2SA1162-G		Q1336	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q548	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1337	8-729-216-22	TRANSISTOR 2SA1162-G	
Q560	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1338	8-729-216-22	TRANSISTOR 2SA1162-G	
Q561	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1339	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q562	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1340	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q563	8-729-216-22	TRANSISTOR 2SA1162-G		Q1341	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q564	8-729-216-22	TRANSISTOR 2SA1162-G		Q1342	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1001	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1343	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1002	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1344	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1003	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1345	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1004	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1346	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q1347	8-729-216-22	TRANSISTOR 2SA1162-G	

KP-53XBR200/61XBR200
RM-Y902 RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
Q1348	8-729-422-27	TRANSISTOR 2SD601A-Q		R522	1-216-045-00	RES,CHIP	680 5% 1/10W	
Q1349	8-729-216-22	TRANSISTOR 2SA1162-G		R523	1-216-031-00	RES,CHIP	180 5% 1/10W	
Q1350	8-729-422-27	TRANSISTOR 2SD601A-Q		R524	1-216-081-00	RES,CHIP	22K 5% 1/10W	
Q1352	8-729-422-27	TRANSISTOR 2SD601A-Q		R525	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	
Q1353	8-729-422-27	TRANSISTOR 2SD601A-Q		R526	1-216-031-00	RES,CHIP	180 5% 1/10W	
Q1354	8-729-216-22	TRANSISTOR 2SA1162-G		R527	1-216-085-00	RES,CHIP	33K 5% 1/10W	
Q1355	8-729-422-27	TRANSISTOR 2SD601A-Q		R528	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	
Q1356	8-729-422-27	TRANSISTOR 2SD601A-Q		R529	1-216-105-91	RES,CHIP	220K 5% 1/10W	
Q1357	8-729-422-27	TRANSISTOR 2SD601A-Q		R530	1-208-780-11	RES,CHIP	820 0.50% 1/10W	
Q1358	8-729-216-22	TRANSISTOR 2SA1162-G		R531	1-208-774-11	RES,CHIP	470 0.50% 1/10W	
Q1359	1-801-806-11	TRANSISTOR DTC144EKA-T146		R532	1-216-049-91	RES,CHIP	1K 5% 1/10W	
Q1366	8-729-422-27	TRANSISTOR 2SD601A-Q		R533	1-216-368-11	METAL OXIDE	0.82 5% 2W	
Q1367	8-729-216-22	TRANSISTOR 2SA1162-G		R534	1-208-810-11	RES,CHIP	15K 0.50% 1/10W	
Q1601	1-801-806-11	TRANSISTOR DTC144EKA-T146		R535	1-216-373-11	METAL OXIDE	2.2 5% 2W	
Q1602	1-801-806-11	TRANSISTOR DTC144EKA-T146		R536	1-208-782-11	RES,CHIP	1K 0.50% 1/10W	
Q1603	1-801-806-11	TRANSISTOR DTC144EKA-T146		R537	1-208-818-11	RES,CHIP	33K 0.50% 1/10W	
Q1604	1-801-806-11	TRANSISTOR DTC144EKA-T146		R538	1-216-083-00	RES,CHIP	27K 5% 1/10W	
Q1605	1-801-806-11	TRANSISTOR DTC144EKA-T146		R539	1-216-689-11	RES,CHIP	39K 5% 1/10W	
Q1606	1-801-806-11	TRANSISTOR DTC144EKA-T146		R540	1-208-808-11	RES,CHIP	12K 0.50% 1/10W	
Q1607	1-801-806-11	TRANSISTOR DTC144EKA-T146		R541	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	
Q1608	1-801-806-11	TRANSISTOR DTC144EKA-T146		R542	1-216-043-91	RES,CHIP	560 5% 1/10W	
Q1609	8-729-044-82	TRANSISTOR 2SK306400LS0		R543	1-208-776-11	RES,CHIP	560 0.50% 1/10W	
Q1610	8-729-044-82	TRANSISTOR 2SK306400LS0		R544	1-216-045-00	RES,CHIP	680 5% 1/10W	
Q1611	8-729-044-82	TRANSISTOR 2SK306400LS0		R545	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	
Q1612	8-729-044-82	TRANSISTOR 2SK306400LS0		R546	1-208-830-11	RES,CHIP	100K 0.50% 1/10W	
Q1613	8-729-044-82	TRANSISTOR 2SK306400LS0		R547	1-216-073-00	RES,CHIP	10K 5% 1/10W	
Q1614	8-729-044-82	TRANSISTOR 2SK306400LS0		R548	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	
Q1615	8-729-044-82	TRANSISTOR 2SK306400LS0		R549	1-208-782-11	RES,CHIP	1K 0.50% 1/10W	
Q1616	8-729-044-82	TRANSISTOR 2SK306400LS0		R550	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	
Q1617	8-729-422-27	TRANSISTOR 2SD601A-Q		R551	1-216-097-91	RES,CHIP	100K 5% 1/10W	
	<RESISTOR>				R552	1-216-081-00	RES,CHIP	22K 5% 1/10W
	<RESISTOR>				R553	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R501	1-216-073-00	RES,CHIP	10K	R554	1-208-776-11	RES,CHIP	560 0.50% 1/10W	
R502	1-216-073-00	RES,CHIP	10K	R555	1-216-043-91	RES,CHIP	560 5% 1/10W	
R503	1-216-065-91	RES,CHIP	4.7K	R556	1-216-121-91	RES,CHIP	1M 5% 1/10W	
R504	1-216-065-91	RES,CHIP	4.7K	R557	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R505	1-216-065-91	RES,CHIP	4.7K	R558	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R506	1-216-025-91	RES,CHIP	100	R559	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R507	1-216-295-91	CONDUCTOR, CHIP	0	R560	1-208-778-11	RES,CHIP	680 0.50% 1/10W	
R508	1-249-393-11	CARBON	10	R561	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R509	1-249-381-11	CARBON	1	R562	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R510	1-216-057-00	RES,CHIP	2.2K	R563	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R511	1-216-295-91	CONDUCTOR, CHIP	0	R564	1-216-097-91	RES,CHIP	100K 5% 1/10W	
R512	1-216-295-91	CONDUCTOR, CHIP	0	R565	1-216-097-91	RES,CHIP	100K 5% 1/10W	
R513	1-216-295-91	CONDUCTOR, CHIP	0	R566	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	
R514	1-216-031-00	RES,CHIP	180	R567	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R515	1-249-381-11	CARBON	1	R568	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R516	1-216-025-91	RES,CHIP	100	R569	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W	
R517	1-216-101-00	RES,CHIP	150K	R570	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	
R518	1-216-295-91	CONDUCTOR, CHIP	0	R571	1-216-097-91	RES,CHIP	10K 5% 1/10W	
R519	1-216-025-91	RES,CHIP	100	R572	1-216-097-91	RES,CHIP	100K 5% 1/10W	
R520	1-216-065-91	RES,CHIP	4.7K	R573	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R521	1-216-049-91	RES,CHIP	1K	R574	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
	<RESISTOR>				R575	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
	<RESISTOR>				R576	1-216-073-00	RES,CHIP	10K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
R577	1-216-075-00	RES,CHIP	12K	5%	1/10W	R643	1-216-025-91	RES,CHIP	100	5%	1/10W
R578	1-216-073-00	RES,CHIP	10K	5%	1/10W	R644	1-216-025-91	RES,CHIP	100	5%	1/10W
R580	1-208-814-11	RES,CHIP	22K	0.50%	1/10W	R645	1-216-025-91	RES,CHIP	100	5%	1/10W
R581	1-216-073-00	RES,CHIP	10K	5%	1/10W	R646	1-216-025-91	RES,CHIP	100	5%	1/10W
R582	1-216-049-91	RES,CHIP	1K	5%	1/10W	R648	1-216-017-91	RES,CHIP	47	5%	1/10W
R583	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R651	1-216-073-00	RES,CHIP	10K	5%	1/10W
R584	1-216-097-91	RES,CHIP	100K	5%	1/10W	R652	1-216-025-91	RES,CHIP	100	5%	1/10W
R585	1-216-097-91	RES,CHIP	100K	5%	1/10W	R653	1-216-025-91	RES,CHIP	100	5%	1/10W
R586	1-216-049-91	RES,CHIP	1K	5%	1/10W	R654	1-216-025-91	RES,CHIP	100	5%	1/10W
R587	1-216-295-91	CONDUCTOR, CHIP	0			R655	1-216-025-91	RES,CHIP	100	5%	1/10W
R588	1-216-017-91	RES,CHIP	47	5%	1/10W	R656	1-216-025-91	RES,CHIP	100	5%	1/10W
R589	1-216-049-91	RES,CHIP	1K	5%	1/10W	R657	1-216-083-00	RES,CHIP	27K	5%	1/10W
R590	1-208-806-11	RES,CHIP	10K	0.50%	1/10W	R658	1-216-689-11	RES,CHIP	39K	5%	1/10W
R591	1-208-806-11	RES,CHIP	10K	0.50%	1/10W	R659	1-216-025-91	RES,CHIP	100	5%	1/10W
R592	1-216-025-91	RES,CHIP	100	5%	1/10W	R660	1-216-025-91	RES,CHIP	100	5%	1/10W
R593	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R661	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R594	1-216-121-91	RES,CHIP	1M	5%	1/10W	R662	1-216-025-91	RES,CHIP	100	5%	1/10W
R595	1-216-033-00	RES,CHIP	220	5%	1/10W	R663	1-216-025-91	RES,CHIP	100	5%	1/10W
R596	1-216-049-91	RES,CHIP	1K	5%	1/10W	R664	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R597	1-216-025-91	RES,CHIP	100	5%	1/10W	R666	1-216-049-91	RES,CHIP	1K	5%	1/10W
R598	1-216-033-00	RES,CHIP	220	5%	1/10W	R667	1-216-109-00	RES,CHIP	330K	5%	1/10W
R599	1-216-049-91	RES,CHIP	1K	5%	1/10W	R668	1-216-025-91	RES,CHIP	100	5%	1/10W
R601	1-216-081-00	RES,CHIP	22K	5%	1/10W	R669	1-208-814-11	RES,CHIP	22K	0.50%	1/10W
R602	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R670	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R603	1-216-073-00	RES,CHIP	10K	5%	1/10W	R672	1-216-049-91	RES,CHIP	1K	5%	1/10W
R604	1-216-073-00	RES,CHIP	10K	5%	1/10W	R673	1-216-025-91	RES,CHIP	100	5%	1/10W
R605	1-216-049-91	RES,CHIP	1K	5%	1/10W	R676	1-216-025-91	RES,CHIP	100	5%	1/10W
R606	1-216-373-11	METAL OXIDE	2.2	5%	2W	R677	1-216-025-91	RES,CHIP	100	5%	1/10W
R607	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R678	1-216-025-91	RES,CHIP	100	5%	1/10W
R608	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R679	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R609	1-216-033-00	RES,CHIP	220	5%	1/10W	R680	1-216-025-91	RES,CHIP	100	5%	1/10W
R610	1-216-025-91	RES,CHIP	100	5%	1/10W	R682	1-208-778-11	RES,CHIP	680	0.50%	1/10W
R612	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R685	1-216-025-91	RES,CHIP	100	5%	1/10W
R613	1-216-073-00	RES,CHIP	10K	5%	1/10W	R688	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R614	1-216-073-00	RES,CHIP	10K	5%	1/10W	R689	1-216-025-91	RES,CHIP	100	5%	1/10W
R615	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R690	1-216-025-91	RES,CHIP	100	5%	1/10W
R616	1-216-295-91	CONDUCTOR, CHIP	0			R692	1-208-808-11	RES,CHIP	12K	0.50%	1/10W
R617	1-216-017-91	RES,CHIP	47	5%	1/10W	R693	1-216-025-91	RES,CHIP	100	5%	1/10W
R618	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R694	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R619	1-216-033-00	RES,CHIP	220	5%	1/10W	R695	1-216-025-91	RES,CHIP	100	5%	1/10W
R620	1-216-049-91	RES,CHIP	1K	5%	1/10W	R696	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R621	1-216-025-91	RES,CHIP	100	5%	1/10W	R697	1-216-025-91	RES,CHIP	100	5%	1/10W
R623	1-216-025-91	RES,CHIP	100	5%	1/10W	R699	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R624	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R700	1-216-043-91	RES,CHIP	560	5%	1/10W
R625	1-216-025-91	RES,CHIP	100	5%	1/10W	R701	1-208-755-11	RES,CHIP	75	0.50%	1/10W
R626	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R703	1-216-295-91	CONDUCTOR, CHIP	0		
R631	1-216-025-91	RES,CHIP	100	5%	1/10W	R705	1-216-025-91	RES,CHIP	100	5%	1/10W
R632	1-216-025-91	RES,CHIP	100	5%	1/10W	R707	1-208-814-11	RES,CHIP	22K	0.50%	1/10W
R634	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R708	1-216-025-91	RES,CHIP	100	5%	1/10W
R635	1-216-295-91	CONDUCTOR, CHIP	0			R709	1-216-091-00	RES,CHIP	56K	5%	1/10W
R636	1-216-133-00	RES,CHIP	3.3M	5%	1/10W	R710	1-216-025-91	RES,CHIP	100	5%	1/10W
R637	1-216-025-91	RES,CHIP	100	5%	1/10W	R712	1-216-025-91	RES,CHIP	100	5%	1/10W
R638	1-216-025-91	RES,CHIP	100	5%	1/10W	R713	1-216-025-91	RES,CHIP	100	5%	1/10W
R639	1-216-025-91	RES,CHIP	100	5%	1/10W	R716	1-216-025-91	RES,CHIP	100	5%	1/10W
R640	1-216-025-91	RES,CHIP	100	5%	1/10W	R717	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R642	1-216-025-91	RES,CHIP	100	5%	1/10W	R720	1-216-057-00	RES,CHIP	2.2K	5%	1/10W

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R721	1-216-025-91	RES,CHIP	100 5% 1/10W	R816	1-216-295-91	CONDUCTOR, CHIP	0
R722	1-216-025-91	RES,CHIP	100 5% 1/10W	R817	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R726	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R818	1-216-049-91	RES,CHIP	1K 5% 1/10W
R727	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R819	1-216-025-91	RES,CHIP	100 5% 1/10W
R729	1-216-295-91	CONDUCTOR, CHIP	0	R820	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R734	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R821	1-216-025-91	RES,CHIP	100 5% 1/10W
R735	1-216-025-91	RES,CHIP	100 5% 1/10W	R822	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R736	1-216-025-91	RES,CHIP	100 5% 1/10W	R823	1-216-025-91	RES,CHIP	100 5% 1/10W
R739	1-216-073-00	RES,CHIP	10K 5% 1/10W	R824	1-216-025-91	RES,CHIP	100 5% 1/10W
R740	1-216-017-91	RES,CHIP	47 5% 1/10W	R825	1-216-025-91	RES,CHIP	100 5% 1/10W
R741	1-216-093-00	RES,CHIP	68K 5% 1/10W	R826	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R743	1-216-025-91	RES,CHIP	100 5% 1/10W	R827	1-216-025-91	RES,CHIP	100 5% 1/10W
R744	1-216-025-91	RES,CHIP	100 5% 1/10W	R828	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R745	1-216-025-91	RES,CHIP	100 5% 1/10W	R829	1-216-025-91	RES,CHIP	100 5% 1/10W
R746	1-216-025-91	RES,CHIP	100 5% 1/10W	R830	1-216-025-91	RES,CHIP	100 5% 1/10W
R747	1-216-085-00	RES,CHIP	33K 5% 1/10W	R831	1-216-025-91	RES,CHIP	100 5% 1/10W
R748	1-216-025-91	RES,CHIP	100 5% 1/10W	R832	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R749	1-216-025-91	RES,CHIP	100 5% 1/10W	R833	1-216-025-91	RES,CHIP	100 5% 1/10W
R751	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R834	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R753	1-216-025-91	RES,CHIP	100 5% 1/10W	R835	1-216-025-91	RES,CHIP	100 5% 1/10W
R754	1-216-025-91	RES,CHIP	100 5% 1/10W	R836	1-216-025-91	RES,CHIP	100 5% 1/10W
R755	1-216-295-91	CONDUCTOR, CHIP	0	R837	1-216-025-91	RES,CHIP	100 5% 1/10W
R756	1-216-045-00	RES,CHIP	680 5% 1/10W	R840	1-216-081-00	RES,CHIP	22K 5% 1/10W
R757	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R841	1-216-081-00	RES,CHIP	22K 5% 1/10W
R759	1-216-295-91	CONDUCTOR, CHIP	0	R843	1-216-081-00	RES,CHIP	22K 5% 1/10W
R760	1-216-295-91	CONDUCTOR, CHIP	0	R852	1-216-113-00	RES,CHIP	470K 5% 1/10W
R763	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R853	1-216-041-00	RES,CHIP	470 5% 1/10W
R765	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R854	1-216-041-00	RES,CHIP	470 5% 1/10W
R766	1-216-019-00	RES,CHIP	56 5% 1/10W	R855	1-216-113-00	RES,CHIP	470K 5% 1/10W
R768	1-216-081-00	RES,CHIP	22K 5% 1/10W	R856	1-216-049-91	RES,CHIP	1K 5% 1/10W
R772	1-216-025-91	RES,CHIP	100 5% 1/10W	R857	1-216-089-91	RES,CHIP	47K 5% 1/10W
R773	1-216-025-91	RES,CHIP	100 5% 1/10W	R858	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R774	1-216-025-91	RES,CHIP	100 5% 1/10W	R859	1-216-033-00	RES,CHIP	220 5% 1/10W
R777	1-216-025-91	RES,CHIP	100 5% 1/10W	R860	1-216-033-00	RES,CHIP	220 5% 1/10W
R779	1-216-085-00	RES,CHIP	33K 5% 1/10W	R861	1-216-033-00	RES,CHIP	220 5% 1/10W
R780	1-216-025-91	RES,CHIP	100 5% 1/10W	R862	1-216-049-91	RES,CHIP	1K 5% 1/10W
R783	1-216-025-91	RES,CHIP	100 5% 1/10W	R864	1-216-049-91	RES,CHIP	1K 5% 1/10W
R784	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R865	1-216-049-91	RES,CHIP	1K 5% 1/10W
R787	1-216-025-91	RES,CHIP	100 5% 1/10W	R866	1-216-049-91	RES,CHIP	1K 5% 1/10W
R788	1-216-073-00	RES,CHIP	10K 5% 1/10W	R867	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R789	1-216-073-00	RES,CHIP	10K 5% 1/10W	R868	1-216-033-00	RES,CHIP	220 5% 1/10W
R790	1-216-025-91	RES,CHIP	100 5% 1/10W	R869	1-216-033-00	RES,CHIP	220 5% 1/10W
R791	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R870	1-216-113-00	RES,CHIP	470K 5% 1/10W
R794	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R871	1-216-113-00	RES,CHIP	470K 5% 1/10W
R795	1-216-025-91	RES,CHIP	100 5% 1/10W	R872	1-216-113-00	RES,CHIP	470K 5% 1/10W
R799	1-216-025-91	RES,CHIP	100 5% 1/10W	R873	1-216-113-00	RES,CHIP	470K 5% 1/10W
R800	1-216-025-91	RES,CHIP	100 5% 1/10W	R875	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R801	1-216-081-00	RES,CHIP	22K 5% 1/10W	R876	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R804	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R877	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R805	1-216-025-91	RES,CHIP	100 5% 1/10W	R878	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R808	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R879	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R809	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R880	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R812	1-216-025-91	RES,CHIP	100 5% 1/10W	R881	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R813	1-216-025-91	RES,CHIP	100 5% 1/10W	R882	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R814	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R883	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R815	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R884	1-208-755-11	RES,CHIP	75 0.50% 1/10W
				R885	1-208-755-11	RES,CHIP	75 0.50% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK		REF. NO.	PART NO.	DESCRIPTION	REMARK			
R886	1-216-113-00	RES,CHIP	470K	5%	1/10W	R1033	1-216-025-91	RES,CHIP	100	5%	1/10W
R887	1-216-033-00	RES,CHIP	220	5%	1/10W	R1034	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R891	1-208-755-11	RES,CHIP	75	0.50%	1/10W	R1035	1-216-025-91	RES,CHIP	100	5%	1/10W
R892	1-216-113-00	RES,CHIP	470K	5%	1/10W	R1036	1-216-009-00	RES,CHIP	22	5%	1/10W
R893	1-208-755-11	RES,CHIP	75	0.50%	1/10W	R1037	1-208-770-11	RES,CHIP	330	0.50%	1/10W
R894	1-216-113-00	RES,CHIP	470K	5%	1/10W	R1038	1-216-025-91	RES,CHIP	100	5%	1/10W
R895	1-208-755-11	RES,CHIP	75	0.50%	1/10W	R1039	1-216-025-91	RES,CHIP	100	5%	1/10W
R896	1-216-113-00	RES,CHIP	470K	5%	1/10W	R1040	1-216-025-91	RES,CHIP	100	5%	1/10W
R897	1-208-755-11	RES,CHIP	75	0.50%	1/10W	R1041	1-216-295-91	CONDUCTOR, CHIP	0		
R898	1-216-113-00	RES,CHIP	470K	5%	1/10W	R1043	1-216-025-91	RES,CHIP	100	5%	1/10W
R899	1-216-033-00	RES,CHIP	220	5%	1/10W	R1044	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R901	1-216-033-00	RES,CHIP	220	5%	1/10W	R1045	1-216-033-00	RES,CHIP	220	5%	1/10W
R903	1-216-009-00	RES,CHIP	22	5%	1/10W	R1046	1-216-073-00	RES,CHIP	10K	5%	1/10W
R904	1-216-009-00	RES,CHIP	22	5%	1/10W	R1049	1-216-089-91	RES,CHIP	47K	5%	1/10W
R905	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1050	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R906	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1051	1-216-049-91	RES,CHIP	1K	5%	1/10W
R907	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1062	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R908	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1063	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R909	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1064	1-216-089-91	RES,CHIP	47K	5%	1/10W
R910	1-216-041-00	RES,CHIP	470	5%	1/10W	R1065	1-216-049-91	RES,CHIP	1K	5%	1/10W
R911	1-216-025-91	RES,CHIP	100	5%	1/10W	R1066	1-216-049-91	RES,CHIP	1K	5%	1/10W
R912	1-216-025-91	RES,CHIP	100	5%	1/10W	R1067	1-216-049-91	RES,CHIP	1K	5%	1/10W
R913	1-216-025-91	RES,CHIP	100	5%	1/10W	R1071	1-216-073-00	RES,CHIP	10K	5%	1/10W
R914	1-216-025-91	RES,CHIP	100	5%	1/10W	R1073	1-216-033-00	RES,CHIP	220	5%	1/10W
R1001	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W	R1074	1-216-033-00	RES,CHIP	220	5%	1/10W
R1002	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W	R1075	1-216-033-00	RES,CHIP	220	5%	1/10W
R1003	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W	R1076	1-216-033-00	RES,CHIP	220	5%	1/10W
R1004	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W	R1077	1-216-033-00	RES,CHIP	220	5%	1/10W
R1005	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W	R1078	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1006	1-216-033-00	RES,CHIP	220	5%	1/10W	R1079	1-216-033-00	RES,CHIP	220	5%	1/10W
R1007	1-208-784-11	RES,CHIP	1.2K	0.50%	1/10W	R1081	1-216-037-00	RES,CHIP	330	5%	1/10W
R1008	1-208-766-11	RES,CHIP	220	0.50%	1/10W	R1082	1-216-037-00	RES,CHIP	330	5%	1/10W
R1009	1-216-033-00	RES,CHIP	220	5%	1/10W	R1083	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1010	1-208-784-11	RES,CHIP	1.2K	0.50%	1/10W	R1084	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1011	1-208-766-11	RES,CHIP	220	0.50%	1/10W	R1086	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1012	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W	R1087	1-216-025-91	RES,CHIP	100	5%	1/10W
R1013	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R1088	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1014	1-216-025-91	RES,CHIP	100	5%	1/10W	R1089	1-216-025-91	RES,CHIP	100	5%	1/10W
R1015	1-216-025-91	RES,CHIP	100	5%	1/10W	R1090	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R1016	1-216-025-91	RES,CHIP	100	5%	1/10W	R1091	1-216-025-91	RES,CHIP	100	5%	1/10W
R1017	1-216-025-91	RES,CHIP	100	5%	1/10W	R1092	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1018	1-216-025-91	RES,CHIP	100	5%	1/10W	R1094	1-216-033-00	RES,CHIP	220	5%	1/10W
R1019	1-216-025-91	RES,CHIP	100	5%	1/10W	R1095	1-216-033-00	RES,CHIP	220	5%	1/10W
R1020	1-216-025-91	RES,CHIP	100	5%	1/10W	R1096	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1021	1-216-033-00	RES,CHIP	220	5%	1/10W	R1097	1-216-033-00	RES,CHIP	220	5%	1/10W
R1022	1-208-784-11	RES,CHIP	1.2K	0.50%	1/10W	R1098	1-216-033-00	RES,CHIP	220	5%	1/10W
R1023	1-208-766-11	RES,CHIP	220	0.50%	1/10W	R1099	1-216-033-00	RES,CHIP	220	5%	1/10W
R1024	1-216-081-00	RES,CHIP	22K	5%	1/10W	R1100	1-216-033-00	RES,CHIP	220	5%	1/10W
R1025	1-216-025-91	RES,CHIP	100	5%	1/10W	R1101	1-216-025-91	RES,CHIP	100	5%	1/10W
R1026	1-208-814-11	RES,CHIP	22K	0.50%	1/10W	R1102	1-216-033-00	RES,CHIP	220	5%	1/10W
R1027	1-216-025-91	RES,CHIP	100	5%	1/10W	R1103	1-216-033-00	RES,CHIP	220	5%	1/10W
R1028	1-208-814-11	RES,CHIP	22K	0.50%	1/10W	R1104	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1029	1-216-025-91	RES,CHIP	100	5%	1/10W	R1105	1-216-033-00	RES,CHIP	220	5%	1/10W
R1030	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W	R1106	1-216-033-00	RES,CHIP	220	5%	1/10W
R1031	1-216-025-91	RES,CHIP	100	5%	1/10W	R1107	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1032	1-216-097-91	RES,CHIP	100K	5%	1/10W	R1108	1-216-025-91	RES,CHIP	100	5%	1/10W

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1109	1-216-295-91	CONDUCTOR, CHIP	0	R1167	1-216-121-91	RES,CHIP	1M
R1110	1-216-033-00	RES,CHIP	220 5% 1/10W	R1171	1-216-049-91	RES,CHIP	1K
R1111	1-216-033-00	RES,CHIP	220 5% 1/10W	R1172	1-216-049-91	RES,CHIP	1K
R1112	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1175	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1113	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1178	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1114	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1180	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1115	1-216-033-00	RES,CHIP	220 5% 1/10W	R1183	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1116	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1185	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1117	1-216-041-00	RES,CHIP	470 5% 1/10W	R1188	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1118	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1301	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1119	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1302	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1120	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1303	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1121	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1305	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1122	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1306	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1123	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1307	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1124	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1308	1-216-025-91	RES,CHIP	100 5% 1/10W
R1125	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1309	1-216-025-91	RES,CHIP	100 5% 1/10W
R1126	1-216-025-91	RES,CHIP	100 5% 1/10W	R1310	1-216-295-91	CONDUCTOR, CHIP	0
R1127	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1311	1-216-025-91	RES,CHIP	100 5% 1/10W
R1129	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1312	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1130	1-216-033-00	RES,CHIP	220 5% 1/10W	R1313	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1131	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1314	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1132	1-216-033-00	RES,CHIP	220 5% 1/10W	R1315	1-216-025-91	RES,CHIP	100 5% 1/10W
R1133	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1316	1-216-025-91	RES,CHIP	100 5% 1/10W
R1134	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1317	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1135	1-216-033-00	RES,CHIP	220 5% 1/10W	R1318	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1136	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1319	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1137	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1320	1-216-025-91	RES,CHIP	100 5% 1/10W
R1138	1-216-033-00	RES,CHIP	220 5% 1/10W	R1321	1-216-025-91	RES,CHIP	100 5% 1/10W
R1139	1-216-033-00	RES,CHIP	220 5% 1/10W	R1322	1-216-025-91	RES,CHIP	100 5% 1/10W
R1140	1-216-033-00	RES,CHIP	220 5% 1/10W	R1323	1-216-037-00	RES,CHIP	330 5% 1/10W
R1141	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1324	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1142	1-216-033-00	RES,CHIP	220 5% 1/10W	R1325	1-216-111-00	RES,CHIP	390K 5% 1/10W
R1143	1-216-033-00	RES,CHIP	220 5% 1/10W	R1326	1-216-025-91	RES,CHIP	100 5% 1/10W
R1144	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1327	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1145	1-216-033-00	RES,CHIP	220 5% 1/10W	R1328	1-216-025-91	RES,CHIP	100 5% 1/10W
R1146	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1329	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1147	1-216-025-91	RES,CHIP	100 5% 1/10W	R1330	1-216-025-91	RES,CHIP	100 5% 1/10W
R1148	1-216-033-00	RES,CHIP	220 5% 1/10W	R1331	1-216-025-91	RES,CHIP	100 5% 1/10W
R1149	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1332	1-216-025-91	RES,CHIP	100 5% 1/10W
R1150	1-216-025-91	RES,CHIP	100 5% 1/10W	R1333	1-216-043-91	RES,CHIP	560 5% 1/10W
R1151	1-216-033-00	RES,CHIP	220 5% 1/10W	R1334	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1152	1-216-025-91	RES,CHIP	100 5% 1/10W	R1335	1-208-768-11	RES,CHIP	270 0.50% 1/10W
R1153	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1337	1-208-770-11	RES,CHIP	330 0.50% 1/10W
R1154	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1338	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1155	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1339	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1156	1-216-033-00	RES,CHIP	220 5% 1/10W	R1340	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1157	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1341	1-216-025-91	RES,CHIP	100 5% 1/10W
R1158	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1342	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R1159	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1343	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1161	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1345	1-216-077-00	RES,CHIP	15K 5% 1/10W
R1162	1-216-025-91	RES,CHIP	100 5% 1/10W	R1346	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1163	1-216-025-91	RES,CHIP	100 5% 1/10W	R1347	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1164	1-216-033-00	RES,CHIP	220 5% 1/10W	R1348	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1165	1-216-033-00	RES,CHIP	220 5% 1/10W	R1349	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R1166	1-216-019-00	RES,CHIP	56 5% 1/10W	R1350	1-216-065-91	RES,CHIP	4.7K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1351	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1417	1-216-025-91	RES,CHIP	100 5% 1/10W
R1352	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1418	1-216-025-91	RES,CHIP	100 5% 1/10W
R1353	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1419	1-216-025-91	RES,CHIP	100 5% 1/10W
R1354	1-216-025-91	RES,CHIP	100 5% 1/10W	R1420	1-216-025-91	RES,CHIP	100 5% 1/10W
R1355	1-216-025-91	RES,CHIP	100 5% 1/10W	R1421	1-216-025-91	RES,CHIP	100 5% 1/10W
R1356	1-216-025-91	RES,CHIP	100 5% 1/10W	R1422	1-216-025-91	RES,CHIP	100 5% 1/10W
R1357	1-216-025-91	RES,CHIP	100 5% 1/10W	R1423	1-216-025-91	RES,CHIP	100 5% 1/10W
R1358	1-208-822-11	RES,CHIP	47K 0.50% 1/10W	R1424	1-216-025-91	RES,CHIP	100 5% 1/10W
R1359	1-216-295-91	CONDUCTOR, CHIP	0	R1425	1-216-025-91	RES,CHIP	100 5% 1/10W
R1360	1-216-295-91	CONDUCTOR, CHIP	0	R1426	1-216-025-91	RES,CHIP	100 5% 1/10W
R1361	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1427	1-216-295-91	CONDUCTOR, CHIP	0
R1362	1-216-295-91	CONDUCTOR, CHIP	0	R1428	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R1363	1-216-025-91	RES,CHIP	100 5% 1/10W	R1429	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1364	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1430	1-216-295-91	CONDUCTOR, CHIP	0
R1365	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1431	1-216-033-00	RES,CHIP	220 5% 1/10W
R1366	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1432	1-216-025-91	RES,CHIP	100 5% 1/10W
R1367	1-216-295-91	CONDUCTOR, CHIP	0	R1433	1-216-111-00	RES,CHIP	390K 5% 1/10W
R1368	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W	R1434	1-208-758-11	RES,CHIP	100 0.50% 1/10W
R1369	1-216-025-91	RES,CHIP	100 5% 1/10W	R1435	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1371	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1436	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1372	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1437	1-216-025-91	RES,CHIP	100 5% 1/10W
R1374	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1438	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1375	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1439	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R1377	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1440	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1379	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1441	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1380	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1442	1-216-041-00	RES,CHIP	470 5% 1/10W
R1381	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1443	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1382	1-216-295-91	CONDUCTOR, CHIP	0	R1445	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1383	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1446	1-216-043-91	RES,CHIP	560 5% 1/10W
R1384	1-216-295-91	CONDUCTOR, CHIP	0	R1447	1-216-025-91	RES,CHIP	100 5% 1/10W
R1385	1-216-295-91	CONDUCTOR, CHIP	0	R1448	1-216-033-00	RES,CHIP	220 5% 1/10W
R1389	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1449	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R1390	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1450	1-216-077-00	RES,CHIP	15K 5% 1/10W
R1391	1-216-021-00	RES,CHIP	68 5% 1/10W	R1451	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1392	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1452	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R1393	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1453	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1394	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1454	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R1395	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1455	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1396	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1457	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R1397	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1458	1-216-025-91	RES,CHIP	100 5% 1/10W
R1398	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1460	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R1400	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1461	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1401	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1462	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1402	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1463	1-216-025-91	RES,CHIP	100 5% 1/10W
R1404	1-208-822-11	RES,CHIP	47K 0.50% 1/10W	R1464	1-216-025-91	RES,CHIP	100 5% 1/10W
R1405	1-216-037-00	RES,CHIP	330 5% 1/10W	R1465	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1406	1-216-025-91	RES,CHIP	100 5% 1/10W	R1466	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R1407	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1467	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1408	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1468	1-216-085-00	RES,CHIP	33K 5% 1/10W
R1410	1-216-025-91	RES,CHIP	100 5% 1/10W	R1470	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1411	1-216-025-91	RES,CHIP	100 5% 1/10W	R1472	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1412	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1473	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W
R1413	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R1474	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1414	1-208-774-11	RES,CHIP	470 0.50% 1/10W	R1475	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1415	1-208-782-11	RES,CHIP	1K 0.50% 1/10W	R1476	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1416	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1477	1-216-017-91	RES,CHIP	47 5% 1/10W

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

A **G**

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The components identified by shading and mark **▲** are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1478	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1624	1-216-025-91	RES,CHIP	100 5% 1/10W
R1479	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W	R1625	1-216-025-91	RES,CHIP	100 5% 1/10W
R1481	1-216-047-91	RES,CHIP	820 5% 1/10W	R1627	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1482	1-216-075-00	RES,CHIP	12K 5% 1/10W	R1628	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1484	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1629	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1485	1-216-025-91	RES,CHIP	100 5% 1/10W	R1630	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1486	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1631	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1487	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W	R1632	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1488	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W	R1633	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1489	1-216-085-00	RES,CHIP	33K 5% 1/10W	R1634	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1490	1-216-025-91	RES,CHIP	100 5% 1/10W	R1640	1-208-758-11	RES,CHIP	100 0.50% 1/10W
R1492	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1641	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1493	1-216-025-91	RES,CHIP	100 5% 1/10W	R1642	1-216-025-91	RES,CHIP	100 5% 1/10W
R1494	1-216-025-91	RES,CHIP	100 5% 1/10W	R1647	1-216-025-91	RES,CHIP	100 5% 1/10W
R1495	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1650	1-216-025-91	RES,CHIP	100 5% 1/10W
R1496	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1653	1-216-025-91	RES,CHIP	100 5% 1/10W
R1497	1-216-017-91	RES,CHIP	47 5% 1/10W	R1654	1-216-025-91	RES,CHIP	100 5% 1/10W
R1499	1-216-295-91	CONDUCTOR, CHIP	0	R1658	1-216-025-91	RES,CHIP	100 5% 1/10W
R1500	1-208-778-11	RES,CHIP	680 0.50% 1/10W	R1663	1-216-025-91	RES,CHIP	100 5% 1/10W
R1501	1-216-047-91	RES,CHIP	820 5% 1/10W	R1666	1-216-025-91	RES,CHIP	100 5% 1/10W
R1502	1-216-075-00	RES,CHIP	12K 5% 1/10W	R1668	1-216-025-91	RES,CHIP	100 5% 1/10W
R1503	1-216-025-91	RES,CHIP	100 5% 1/10W	R1669	1-216-025-91	RES,CHIP	100 5% 1/10W
R1504	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1670	1-216-025-91	RES,CHIP	100 5% 1/10W
R1509	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1671	1-216-025-91	RES,CHIP	100 5% 1/10W
R1511	1-216-295-91	CONDUCTOR, CHIP	0	R1672	1-216-025-91	RES,CHIP	100 5% 1/10W
R1517	1-216-295-91	CONDUCTOR, CHIP	0	R1673	1-216-025-91	RES,CHIP	100 5% 1/10W
R1518	1-216-295-91	CONDUCTOR, CHIP	0	R1674	1-216-025-91	RES,CHIP	100 5% 1/10W
R1521	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1675	1-216-025-91	RES,CHIP	100 5% 1/10W
R1527	1-216-025-91	RES,CHIP	100 5% 1/10W	<TUNER>			
R1528	1-216-025-91	RES,CHIP	100 5% 1/10W	TU501	8-598-431-00	TUNER, FSS BTF-WA411	
R1529	1-216-025-91	RES,CHIP	100 5% 1/10W	TU502	8-598-431-00	TUNER, FSS BTF-WA411	
R1530	1-216-025-91	RES,CHIP	100 5% 1/10W	<CRYSTAL>			
R1536	1-216-049-91	RES,CHIP	1K 5% 1/10W	X1001	1-767-925-21	VIBRATOR, CRYSTAL	
R1537	1-216-049-91	RES,CHIP	1K 5% 1/10W	X1002	1-579-125-11	VIBRATOR, CERAMIC	
R1538	1-216-049-91	RES,CHIP	1K 5% 1/10W	X1301	1-577-611-11	OSCILALTOR, CERAMIC	
R1540	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	X1302	1-567-505-11	OSCILLATOR, CRYSTAL	
R1543	1-216-295-91	CONDUCTOR, CHIP	0	X1303	1-577-611-11	OSCILALTOR, CERAMIC	
R1544	1-208-822-11	RES,CHIP	47K 0.50% 1/10W	X1305	1-567-505-11	OSCILLATOR, CRYSTAL	
R1545	1-208-810-11	RES,CHIP	15K 0.50% 1/10W	*****			
R1546	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	* A-1316-400-A G BOARD, COMPLETE			
R1601	1-216-117-00	RES,CHIP	680K 5% 1/10W	*****			
R1602	1-216-113-00	RES,CHIP	470K 5% 1/10W	4-382-854-11 SCREW (M3X10), P, SW (+)			
R1603	1-216-295-91	CONDUCTOR, CHIP	0	<CAPACITOR>			
R1605	1-216-117-00	RES,CHIP	680K 5% 1/10W	C6001	▲ 1-104-708-11	FILM	0.47μF 20% 250V
R1607	1-216-117-00	RES,CHIP	680K 5% 1/10W	C6002	▲ 1-104-706-11	FILM	0.22μF 20% 250V
R1609	1-216-097-91	RES,CHIP	100K 5% 1/10W	C6003	▲ 1-119-906-51	CERAMIC	2200PF 20% 250V
R1611	1-216-117-00	RES,CHIP	680K 5% 1/10W	C6004	1-119-906-51	CERAMIC	2200PF 20% 250V
R1612	1-216-113-00	RES,CHIP	470K 5% 1/10W				
R1613	1-216-025-91	RES,CHIP	100 5% 1/10W				
R1614	1-216-117-00	RES,CHIP	680K 5% 1/10W				
R1617	1-216-117-00	RES,CHIP	680K 5% 1/10W				
R1619	1-216-025-91	RES,CHIP	100 5% 1/10W				
R1620	1-216-025-91	RES,CHIP	100 5% 1/10W				
R1621	1-216-025-91	RES,CHIP	100 5% 1/10W				
R1622	1-216-025-91	RES,CHIP	100 5% 1/10W				
R1623	1-216-025-91	RES,CHIP	100 5% 1/10W				



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
C6006	1-162-599-12	CERAMIC	0.0047μF	250V	C6135	1-126-968-11	ELECT	100μF	20%	50V	
C6007	1-162-599-12	CERAMIC	0.0047μF	250V	C6137	1-104-666-11	ELECT	220μF	20%	25V	
C6008 \triangle	1-104-350-11	ELECT(BLOCK)	1000μF	20%	C6140	1-104-665-11	ELECT	100μF	20%	25V	
C6009	1-107-671-91	ELECT	22μF	20%	C6145	1-126-916-11	ELECT	1000μF	20%	6.3V	
C6010 \triangle	1-104-350-11	ELECT(BLOCK)	1000μF	20%	250V	<CONNECTOR>					
C6012	1-126-968-11	ELECT	100μF	20%	50V	CN6004 *	1-580-843-11	PIN, CONNECTOR (POWER)			
C6013	1-126-964-11	ELECT	10μF	20%	50V	CN6101 *	1-564-510-11	PLUG, CONNECTOR 7P			
C6014	1-104-664-11	ELECT	47μF	20%	25V	CN6102 *	1-691-757-11	PIN, CONNECTOR (PC BOARD) 8P			
C6015	1-137-605-11	FILM	0.01μF	10%	250V	CN6103	1-695-915-11	TAB (CONTACT)			
C6016	1-126-961-11	ELECT	2.2μF	20%	50V	CN6104 *	1-564-512-11	PLUG, CONNECTOR 9P			
C6017	1-126-968-11	ELECT	100μF	20%	50V	CN6105 *	1-564-509-11	PLUG, CONNECTOR 6P			
C6018	1-102-112-00	CERAMIC	330PF	10%	50V	CN6106 *	1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P			
C6019	1-102-112-00	CERAMIC	330PF	10%	50V	<DIODE>					
C6020	1-136-165-00	FILM	0.1μF	5%	50V	D6001	8-719-068-00	DIODE ERC04-06SE			
C6021	1-126-960-11	ELECT	1μF	20%	50V	D6002 \triangle	8-719-033-58	DIODE RBV-1506			
C6022	1-137-219-11	FILM	0.015μF	5%		D6003	8-719-068-00	DIODE ERC04-06SE			
C6023	1-115-405-11	FILM	0.039μF	3%	1KV	D6004	8-719-110-31	DIODE RD12ESB2			
C6025	1-125-969-91	CERAMIC	680PF	10%	1KV	D6005	8-719-979-64	DIODE UF4005PKG23			
C6026	1-125-969-91	CERAMIC	680PF	10%	1KV	D6006	8-719-059-23	DIODE P6KE200AG23			
C6027	1-126-964-11	ELECT	10μF	20%	50V	D6007	8-719-991-33	DIODE 1SS133T-77			
C6028	1-136-479-11	FILM	0.001μF	2%	50V	D6009	8-719-982-26	DIODE MTZJ-33B			
C6029	1-102-112-00	CERAMIC	330PF	10%	50V	D6010	8-719-991-33	DIODE 1SS133T-77			
C6030	1-102-112-00	CERAMIC	330PF	10%	50V	D6011	8-719-923-60	DIODE MTZJ-T-77-9.1A			
C6031	1-126-960-11	ELECT	1μF	20%	50V	D6012	8-719-991-33	DIODE 1SS133T-77			
C6032	1-136-165-00	FILM	0.1μF	5%	50V	D6013	8-719-991-33	DIODE 1SS133T-77			
C6033	1-125-969-91	CERAMIC	680PF	10%	1KV	D6014	8-719-991-33	DIODE 1SS133T-77			
C6034	1-125-969-91	CERAMIC	680PF	10%	1KV	D6015	8-719-510-64	DIODE S2LA20F			
C6035	1-126-964-11	ELECT	10μF	20%	50V	D6016	8-719-979-64	DIODE UF4005PKG23			
C6036	1-136-165-00	FILM	0.1μF	5%	50V	D6017	8-719-110-53	DIODE RD20ESB2			
C6037	1-126-964-11	ELECT	10μF	20%	50V	D6018	8-719-979-64	DIODE UF4005PKG23			
C6102	1-104-665-11	ELECT	100μF	20%	25V	D6019	8-719-110-53	DIODE RD20ESB2			
C6103	1-104-664-11	ELECT	47μF	20%	25V	D6020	8-719-210-53	DIODE 11ES4-TA1B			
C6104	1-101-810-00	CERAMIC	100PF	5%	500V	D6021	8-719-110-53	DIODE RD20ESB2			
C6105	1-101-810-00	CERAMIC	100PF	5%	500V	D6022	8-719-110-53	DIODE RD20ESB2			
C6108	1-104-664-11	ELECT	47μF	20%	25V	D6023	8-719-991-33	DIODE 1SS133T-77			
C6113	1-107-639-11	ELECT	47μF	20%	160V	D6024	8-719-991-33	DIODE 1SS133T-77			
C6114	1-107-641-11	ELECT	220μF	20%	160V	D6025	8-719-979-64	DIODE UF4005PKG23			
C6115	1-104-665-11	ELECT	100μF	20%	25V	D6026	8-719-110-53	DIODE RD20ESB2			
C6116	1-126-968-11	ELECT	100μF	20%	50V	D6027	8-719-979-64	DIODE UF4005PKG23			
C6117	1-128-546-11	ELECT	10000μF	20%	10V	D6028	8-719-110-53	DIODE RD20ESB2			
C6118	1-126-943-11	ELECT	2200μF	20%	25V	D6029	8-719-110-53	DIODE RD20ESB2			
C6119	1-126-943-11	ELECT	2200μF	20%	25V	D6030	8-719-110-53	DIODE RD20ESB2			
C6120	1-128-549-11	ELECT	3300μF	20%	35V	D6031	8-719-210-53	DIODE 11ES4-TA1B			
C6121	1-128-549-11	ELECT	3300μF	20%	35V	D6032	8-719-110-53	DIODE RD20ESB2			
C6122	1-126-943-11	ELECT	2200μF	20%	25V	D6033	8-719-991-33	DIODE 1SS133T-77			
C6123	1-107-641-11	ELECT	220μF	20%	160V	D6034	8-719-991-33	DIODE 1SS133T-77			
C6124	1-128-549-11	ELECT	3300μF	20%	35V	D6035	8-719-110-31	DIODE RD12ESB2			
C6125	1-128-549-11	ELECT	3300μF	20%	35V	D6101	8-719-210-53	DIODE 11ES4-TA1B			
C6126	1-104-665-11	ELECT	100μF	20%	25V	D6102	8-719-057-96	DIODE D10SC6M-4012			
C6127	1-107-639-11	ELECT	47μF	20%	160V	D6103	8-719-052-90	DIODE D1NL40-TA2			
C6128	1-128-549-11	ELECT	3300μF	20%	35V	D6104	8-719-031-78	DIODE S2L40F			
C6129	1-128-549-11	ELECT	3300μF	20%	35V	D6105	8-719-052-91	DIODE D4SBS4-F			
C6131	1-104-665-11	ELECT	100μF	20%	25V	D6106	8-719-052-90	DIODE D1NL40-TA2			
C6132	1-104-665-11	ELECT	100μF	20%	25V						
C6133	1-104-665-11	ELECT	100μF	20%	25V						
C6134	1-126-968-11	ELECT	100μF	20%	50V						

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D6107	8-719-031-78	DIODE S2L40F					<IC LINK>
D6108	8-719-057-96	DIODE D10SC6M-4012		PS6101 1-533-597-31	LINK, IC		
D6109	8-719-049-92	DIODE SF10SC3L		PS6102 1-533-597-31	LINK, IC		
D6110	8-719-982-26	DIODE MTZJ-33B		PS6103 1-533-790-31	LINK, IC		
D6111	8-719-991-33	DIODE 1SS133T-77		PS6104 1-533-790-31	LINK, IC		
D6112	8-719-991-33	DIODE 1SS133T-77					<TRANSISTOR>
D6113	8-719-991-33	DIODE 1SS133T-77		Q6001	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D6114	8-719-072-30	DIODE D25SC6MRF04		Q6002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D6116	8-719-072-29	DIODE D25SC6MF04		Q6003	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D6117	8-719-988-31	DIODE D10SC6MR		Q6004	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D6119	8-719-110-31	DIODE RD12ESB2		Q6005	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D6120	8-719-510-64	DIODE S2LA20F		Q6006	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D6121	8-719-921-63	DIODE MTZJ-7.5B		Q6007	8-729-044-42	TRANSISTOR IRFI644G-LF36	
D6122	8-719-991-33	DIODE 1SS133T-77		Q6008	8-729-044-42	TRANSISTOR IRFI644G-LF36	
D6123	8-719-991-33	DIODE 1SS133T-77		Q6009	8-729-044-42	TRANSISTOR IRFI644G-LF36	
D6124	8-719-991-33	DIODE 1SS133T-77		Q6010	8-729-044-42	TRANSISTOR IRFI644G-LF36	
D6125	8-719-991-33	DIODE 1SS133T-77		Q6011	8-729-140-97	TRANSISTOR 2SB734-34	
<FUSE>				Q6012	8-729-119-76	TRANSISTOR 2SA1175-HFE	
F6001 1-576-048-11		FUSE, GLASS TUBE 10A/125V		Q6013	8-729-119-78	TRANSISTOR 2SC2785-HFE	
F6002 1-533-759-11		FUSE, GLASS TUBE 6.3A/125V		Q6101	8-729-119-76	TRANSISTOR 2SA1175-HFE	
1-533-223-11		CLIP, FUSE ; F6001, 6002		Q6102	8-729-119-76	TRANSISTOR 2SA1175-HFE	
F6105 1-576-278-21		FUSE, MULTI		Q6103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
F6106 1-533-759-11		FUSE, MULTI		Q6104	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<FERRITE BEAD>				Q6106	8-729-119-76	TRANSISTOR 2SA1175-HFE	
FB6101	1-410-397-21	FERRITE	1.1μH	<RESISTOR>			
FB6102	1-410-397-21	FERRITE	1.1μH	R6001	1-219-776-11	CARBON	2.2M 10% 1/2W
<IC>				R6002	1-219-759-11	CARBON	1M 5% 1/2W
IC6001	8-759-468-89	IC TOP209P		R6004	1-260-131-11	CARBON	470K 5% 1/2W
IC6002	8-759-185-47	IC IR2112		R6005	1-249-401-11	CARBON	47 5% 1/4W
IC6003	8-759-077-25	IC IR3M02A		R6006	1-260-127-11	CARBON	220K 5% 1/2W
IC6004	8-759-185-47	IC IR2112		R6007	1-249-437-11	CARBON	47K 5% 1/4W
IC6005 8-749-010-64		PHOTO COUPLER PC123F2		R6008	1-260-127-11	CARBON	220K 5% 1/2W
IC6011 8-749-010-64				R6010	1-205-997-11	CEMENTED	2.2 5% 10W
IC6101	8-749-920-61	IC SE-135N		R6011	1-249-437-11	CARBON	47K 5% 1/4W
IC6102	8-759-103-93	IC UPC393C		R6012	1-212-849-00	FUSIBLE	4.7 5% 1/4W
IC6103	8-759-198-31	IC UPC1093J-1-T		R6013	1-247-895-91	CARBON	470K 5% 1/4W
IC6104	8-759-450-47	IC BA05T		R6014	1-249-437-11	CARBON	47K 5% 1/4W
<COIL>				R6015	1-249-437-11	CARBON	47K 5% 1/4W
L6001 1-431-116-11		TRANSFORMER, LINE FILTER		R6016	1-249-437-11	CARBON	47K 5% 1/4W
L6002 1-431-116-11		TRANSFORMER, LINE FILTER		R6017	1-249-417-11	CARBON	1K 5% 1/4W
L6103	1-412-523-25	INDUCTOR	6.8μH	R6018	1-247-863-91	CARBON	22K 5% 1/4W
L6104	1-412-523-25	INDUCTOR	6.8μH	R6019	1-249-429-11	CARBON	10K 5% 1/4W
L6105	1-412-525-31	INDUCTOR	10μH	R6020	1-249-425-11	CARBON	4.7K 5% 1/4W
L6106	1-412-525-31	INDUCTOR	10μH	R6021	1-247-791-91	CARBON	22 5% 1/4W
L6107	1-406-659-11	INDUCTOR	0μH	R6022	1-249-437-11	CARBON	47K 5% 1/4W
L6108	1-412-525-31	INDUCTOR	10μH	R6023	1-247-895-91	CARBON	470K 5% 1/4W
L6109	1-412-525-31	INDUCTOR	10μH	R6024	1-249-397-11	CARBON	22 5% 1/4W
L6110	1-412-525-31	INDUCTOR	10μH	R6025	1-249-397-11	CARBON	22 5% 1/4W
L6111	1-412-525-31	INDUCTOR	10μH	R6026	1-249-425-11	CARBON	4.7K 5% 1/4W
L6112	1-412-525-31	INDUCTOR	10μH	R6027	1-249-425-11	CARBON	4.7K 5% 1/4W
L6113	1-412-525-31	INDUCTOR	10μH	R6028	1-215-427-00	METAL	1.8K 1% 1/4W
L6114	1-412-525-31	INDUCTOR	10μH	R6029	1-247-863-91	CARBON	22K 5% 1/4W
L6115	1-412-525-31	INDUCTOR	10μH	R6030	1-249-437-11	CARBON	47K 5% 1/4W



The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION	REMARK		REF. NO.	PART NO.	DESCRIPTION	REMARK				
R6031	1-249-425-11	CARBON	4.7K	5%	1/4W			<TRANSFORMER>				
R6032	1-249-417-11	CARBON	1K	5%	1/4W			T6001 △ 1-429-807-11 TRANSFORMER, CONVERTER (PIT)				
R6033	1-215-444-00	METAL	9.1K	1%	1/4W			T6002 △ 1-431-897-11 TRANSFORMER, CONVERTER (PIT)				
R6034	1-249-417-11	CARBON	1K	5%	1/4W			T6003 △ 1-431-732-11 TRANSFORMER, CONVERTER (SRT)				
R6035	1-249-397-11	CARBON	22	5%	1/4W			<VARISTOR>				
R6036	1-249-397-11	CARBON	22	5%	1/4W							
R6037	1-249-425-11	CARBON	4.7K	5%	1/4W							
R6038	1-249-425-11	CARBON	4.7K	5%	1/4W			VD6001 1-801-073-31 VARISTOR TNR14V471K660				
R6039	1-249-429-11	CARBON	10K	5%	1/4W							
R6040	1-249-429-11	CARBON	10K	5%	1/4W							
R6041	1-249-429-11	CARBON	10K	5%	1/4W							
R6042	1-249-437-11	CARBON	47K	5%	1/4W			*****				
R6043	1-260-134-11	CARBON	820K	5%	1/2W			* A-1331-781-A CR BOARD, COMPLETE				
R6101	1-215-437-00	METAL	4.7K	1%	1/4W			*****				
R6102	1-215-479-00	METAL	270K	1%	1/4W							
R6103	1-215-437-00	METAL	4.7K	1%	1/4W			4-382-854-11 SCREW (M3X10), P, SW (+)				
R6104	1-215-413-00	METAL	470	1%	1/4W							
R6105	1-249-417-11	CARBON	1K	5%	1/4W			<CAPACITOR>				
R6106	1-249-417-11	CARBON	1K	5%	1/4W							
R6108	1-249-425-11	CARBON	4.7K	5%	1/4W	C7102	1-162-115-00	CERAMIC	330PF	10%	2KV	
R6109	1-249-425-11	CARBON	4.7K	5%	1/4W	C7103	1-107-662-11	ELECT	22μF	20%	250V	
R6110	1-249-417-11	CARBON	1K	5%	1/4W	C7104	1-126-768-11	ELECT	2200μF	20%	16V	
R6111	1-215-900-11	METAL OXIDE	22K	5%	2W	C7105	1-162-115-00	CERAMIC	330PF	10%	2KV	
R6112	1-249-417-11	CARBON	1K	5%	1/4W	C7106	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
R6113	1-249-429-11	CARBON	10K	5%	1/4W	C7107	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
R6115	1-249-409-11	CARBON	220	5%	1/4W	C7108	1-126-967-11	ELECT	47μF	20%	50V	
R6116	1-249-429-11	CARBON	10K	5%	1/4W	C7109	1-161-830-00	CERAMIC	0.0047μF		500V	
R6117	1-249-413-11	CARBON	470	5%	1/4W	C7110	1-102-050-00	CERAMIC	0.01μF	99%	500V	
R6118	1-216-361-00	METAL OXIDE	0.22	5%	2W	C7111	1-102-157-00	CERAMIC	560PF	10%	500V	
R6119	1-249-429-11	CARBON	10K	5%	1/4W	C7113	1-126-964-11	ELECT	10μF	20%	50V	
R6120	1-249-429-11	CARBON	10K	5%	1/4W	C7114	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V	
R6121	1-249-429-11	CARBON	10K	5%	1/4W							
R6122	1-249-377-11	CARBON	0.47	5%	1/4W			<CONNECTOR>				
R6123	1-249-377-11	CARBON	0.47	5%	1/4W							
R6124	1-249-377-11	CARBON	0.47	5%	1/4W	CN7101	* 1-564-511-11	PLUG, CONNECTOR 8P				
R6125	1-249-425-11	CARBON	4.7K	5%	1/4W	CN7102	* 1-564-509-11	PLUG, CONNECTOR 6P				
R6126	1-249-417-11	CARBON	1K	5%	1/4W	CN7103	* 1-564-512-11	PLUG, CONNECTOR 9P				
R6128	1-249-417-11	CARBON	1K	5%	1/4W	CN7104	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
R6129	1-249-421-11	CARBON	2.2K	5%	1/4W	CN7107	1-695-915-11	TAB (CONTACT)				
R6130	1-249-425-11	CARBON	4.7K	5%	1/4W							
R6132	1-249-417-11	CARBON	1K	5%	1/4W			<DIODE>				
R6133	1-249-425-11	CARBON	4.7K	5%	1/4W	D7102	8-719-921-86	DIODE MTZJ-13				
R6134	1-249-417-11	CARBON	1K	5%	1/4W	D7103	8-719-901-83	DIODE 1SS83				
R6135	1-249-425-11	CARBON	4.7K	5%	1/4W	D7104	8-719-901-83	DIODE 1SS83				
R6136	1-249-425-11	CARBON	4.7K	5%	1/4W	D7105	8-719-901-83	DIODE 1SS83				
R6141	1-249-401-11	CARBON	47	5%	1/4W	D7106	8-719-901-83	DIODE 1SS83				
R6142	1-249-425-11	CARBON	4.7K	5%	1/4W	D7107	1-216-295-91	CONDUCTOR, CHIP			0	
R6143	1-249-425-11	CARBON	4.7K	5%	1/4W	D7109	8-719-921-86	DIODE MTZJ-13				
<RELAY>										<IC>		
RY6001△1-515-999-11 RELAY, POWER												
RY6002△1-515-999-11 RELAY, POWER										IC TDA6111Q/N4		

KP-53XBR200/61XBR200

RM-Y902

RM-Y902



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REF. NO.	PART NO.	DESCRIPTION	REMARK
<JACK>			

J7101 1-251-179-11 SOCKET, CRT

<COIL>			
L7102	1-414-223-11	INDUCTOR	470µH
L7103	1-414-181-11	INDUCTOR	4.7µH
L7104	1-414-187-11	INDUCTOR	47µH

<NEON LAMP>			
NL7101	1-517-778-21	LAMP, NEON	
NL7102	1-517-778-21	LAMP, NEON	
NL7103	1-517-778-21	LAMP, NEON	

<TRANSISTOR>			
Q7101	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q7102	8-729-216-22	TRANSISTOR 2SA1162-G	

<RESISTOR>						
R7101	1-260-132-11	CARBON	560K	5%	1/2W	
R7102	1-249-389-11	CARBON	4.7	5%	1/4W	
R7103	1-216-295-91	CONDUCTOR, CHIP	0			
R7105	1-260-117-11	CARBON	33K	5%	1/2W	
R7106	1-219-743-11	CARBON	100	5%	1/2W	
R7107	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R7108	1-260-133-11	CARBON	680K	5%	1/2W	
R7109	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R7110	1-208-793-91	RES,CHIP	3.0K	0.50%	1/10W	
R7111	1-216-033-00	RES,CHIP	220	5%	1/10W	
R7112	1-249-424-11	CARBON	3.9K	5%	1/4W	
R7113	1-216-029-00	RES,CHIP	150	5%	1/10W	
R7114	1-208-791-91	RES,CHIP	2.4K	0.50%	1/10W	
R7116	1-215-904-11	METAL OXIDE	100K	5%	2W	
R7117	1-260-093-11	CARBON	330	5%	1/2W	
R7118	1-260-087-11	CARBON	100	5%	1/2W	
R7119	1-260-099-11	CARBON	1K	5%	1/2W	
R7121	1-216-295-91	CONDUCTOR, CHIP	0			
R7122	1-216-033-00	RES,CHIP	220	5%	1/10W	
R7123	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R7126	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W	
R7127	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W	

<SPARK GAP>

SG7101	1-519-422-11	GAP, SPARK
SG7102	1-519-422-11	GAP, SPARK

REF. NO.	PART NO.	DESCRIPTION	REMARK
4-382-854-11 SCREW (M3X10), P, SW (+)			

<CAPACITOR>

C7202	1-162-115-00	CERAMIC	330PF	10%	2KV
C7203	1-126-768-11	ELECT	2200µF	20%	16V
C7204	1-107-662-11	ELECT	22µF	20%	250V
C7205	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7206	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C7207	1-162-115-00	CERAMIC	330PF	10%	2KV
C7208	1-126-967-11	ELECT	47µF	20%	50V
C7209	1-102-050-00	CERAMIC	0.01µF	99%	500V
C7210	1-161-830-00	CERAMIC	0.0047µF		500V
C7211	1-102-157-00	CERAMIC	560PF	10%	500V
C7212	1-163-085-00	CERAMIC CHIP	2PF		0.25PF 50V
C7213	1-163-085-00	CERAMIC CHIP	2PF		0.25PF 50V
C7214	1-126-964-11	ELECT	10µF	20%	50V

<CONNECTOR>

CN7201	*	1-564-509-11	PLUG, CONNECTOR 6P
CN7202	*	1-564-508-11	PLUG, CONNECTOR 5P
CN7203	*	1-564-512-11	PLUG, CONNECTOR 9P
CN7204	*	1-564-512-11	PLUG, CONNECTOR 9P
CN7205	*	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
CN7208		1-695-915-11	TAB (CONTACT)

<DIODE>

D7202	8-719-921-86	DIODE MTZJ-13
D7203	8-719-901-83	DIODE ISS83
D7204	8-719-901-83	DIODE ISS83
D7205	8-719-901-83	DIODE ISS83
D7206	8-719-901-83	DIODE ISS83
D7207	1-216-295-91	CONDUCTOR, CHIP
D7208	8-719-404-49	DIODE MA111

<IC>

IC7201 8-759-360-83 IC TDA6111Q/N4

<JACK>

J7201 1-251-179-11 SOCKET, CRT

<COIL>

L7201	1-414-223-11	INDUCTOR	470µH
L7203	1-414-181-11	INDUCTOR	4.7µH
L7204	1-414-187-11	INDUCTOR	47µH

<NEON LAMP>

NL7201	1-517-778-21	LAMP, NEON
NL7202	1-517-778-21	LAMP, NEON

* A-1331-782-A CG BOARD, COMPLETE

CG**CB**

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Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK						
<TRANSISTOR>													
Q7201	8-729-422-27	TRANSISTOR 2SD601A-Q		C7313	1-163-085-00	CERAMIC CHIP	2PF 0.25PF 50V						
Q7202	8-729-216-22	TRANSISTOR 2SA1162-G		C7314	1-126-964-11	ELECT	10 μ F 20% 50V						
<CONNECTOR>													
<RESISTOR>													
R7201	1-260-132-11	CARBON	560K	5%	1/2W	CN7301 * 1-564-508-11	PLUG, CONNECTOR 5P						
R7202	1-216-295-91	CONDUCTOR, CHIP		0		CN7302 * 1-564-512-11	PLUG, CONNECTOR 9P						
R7203	1-216-097-91	RES,CHIP	100K	5%	1/10W	CN7303 * 1-564-510-11	PLUG, CONNECTOR 7P						
R7204	1-219-743-11	CARBON	100	5%	1/2W	CN7304 * 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P						
R7205	1-260-117-11	CARBON	33K	5%	1/2W	CN7307 1-695-915-11	TAB (CONTACT)						
R7206	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	CN7314 * 1-564-507-11	PLUG, CONNECTOR 4P						
R7207	1-216-075-00	RES,CHIP	12K	5%	1/10W	<DIODE>							
R7208	1-216-033-00	RES,CHIP	220	5%	1/10W	D7302	8-719-921-86	DIODE MTZJ-13					
R7209	1-260-133-11	CARBON	680K	5%	1/2W	D7303	8-719-901-83	DIODE 1SS83					
R7210	1-208-794-91	RES,CHIP	3.3K	0.50%	1/10W	D7304	8-719-901-83	DIODE 1SS83					
R7211	1-249-424-11	CARBON	3.9K	5%	1/4W	D7305	8-719-901-83	DIODE 1SS83					
R7212	1-208-788-91	RES,CHIP	1.8K	0.50%	1/10W	D7306	8-719-901-83	DIODE 1SS83					
R7213	1-215-904-11	METAL OXIDE	100K	5%	2W	D7307	8-719-404-49	DIODE MA111					
R7214	1-216-029-00	RES,CHIP	150	5%	1/10W	D7310	8-719-991-33	DIODE 1SS133T-77					
R7215	1-216-295-91	CONDUCTOR, CHIP	0			D7311	8-719-921-86	DIODE MTZJ-13					
R7216	1-260-093-11	CARBON	330	5%	1/2W	D7312	8-719-921-86	DIODE MTZJ-13					
R7217	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W	D7313	1-216-295-91	CONDUCTOR, CHIP	0				
R7218	1-260-099-11	CARBON	1K	5%	1/2W	<IC>							
R7219	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	IC7301	8-759-360-83	IC TDA6111Q/N4					
R7220	1-216-033-00	RES,CHIP	220	5%	1/10W	<JACK>							
R7223	1-208-804-91	RES,CHIP	8.2K	0.50%	1/10W	J7301 \triangle 1-251-179-11	SOCKET, CRT						
R7224	1-208-802-11	RES,CHIP	6.8K	0.50%	1/10W	<COIL>							
<SPARK GAP>													
SG7201	1-519-422-11	GAP, SPARK			L7301	1-414-223-11	INDUCTOR	470 μ H					
SG7202	1-519-422-11	GAP, SPARK			L7303	1-414-181-11	INDUCTOR	4.7 μ H					
SG7203	1-519-422-11	GAP, SPARK			L7304	1-414-187-11	INDUCTOR	47 μ H					

* A-1331-783-A CB BOARD, COMPLETE													

4-382-854-11 SCREW (M3X10), P, SW (+)													
<CAPACITOR>													
C7302	1-162-115-00	CERAMIC	330PF	10%	2KV	<TRANSISTOR>							
C7303	1-162-115-00	CERAMIC	330PF	10%	2KV	Q7301	8-729-422-27	TRANSISTOR 2SD601A-Q					
C7304	1-126-768-11	ELECT	2200 μ F	20%	16V	Q7302	8-729-216-22	TRANSISTOR 2SA1162-G					
C7305	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	<RESISTOR>							
C7306	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	R7301	1-219-743-11	CARBON	100	5%	1/2W		
C7307	1-107-662-11	ELECT	22 μ F	20%	250V	R7302	1-260-132-11	CARBON	560K	5%	1/2W		
C7308	1-126-967-11	ELECT	47 μ F	20%	50V	R7303	1-249-393-11	CARBON	10	5%	1/4W		
C7309	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V	R7304	1-216-295-91	CONDUCTOR, CHIP	0				
C7310	1-161-830-00	CERAMIC	0.0047 μ F		500V	R7306	1-260-099-11	CARBON	1K	5%	1/2W		
C7311	1-102-050-00	CERAMIC	0.01 μ F	99%	500V								
C7312	1-102-157-00	CERAMIC	560PF	10%	500V								

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

CB D

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
R7307	1-208-800-11	RES,CHIP	5.6K	0.50%	1/10W	C5019	1-102-228-00	CERAMIC	470PF	10%	500V
R7308	1-260-133-11	CARBON	680K	5%	1/2W	C5020	1-130-495-00	FILM	0.1μF	5%	50V
R7309	1-208-791-91	RES,CHIP	2.4K	0.50%	1/10W	C5022	1-137-372-11	FILM	0.022μF	5%	50V
R7310	1-208-768-11	RES,CHIP	270	0.50%	1/10W	C5023	1-126-960-11	ELECT	1μF	20%	50V
R7311	1-208-808-11	RES,CHIP	12K	0.50%	1/10W	C5024	1-126-942-61	ELECT	1000μF	20%	25V
R7312	1-208-793-91	RES,CHIP	3.0K	0.50%	1/10W	C5025	1-126-942-61	ELECT	1000μF	20%	25V
R7313	1-216-033-00	RES,CHIP	220	5%	1/10W	C5026	1-137-370-11	FILM	0.01μF	5%	50V
R7314	1-249-424-11	CARBON	3.9K	5%	1/4W	C5028	1-102-228-00	CERAMIC	470PF	10%	500V
R7315	1-216-029-00	RES,CHIP	150	5%	1/10W	C5029	1-164-096-11	CERAMIC	0.01μF	50V	
R7316	1-215-904-11	METAL OXIDE	100K	5%	2W	C5030	1-107-639-11	ELECT	47μF	20%	160V
R7317	1-260-093-11	CARBON	330	5%	1/2W	C5031	1-106-383-00	MYLAR	0.047μF	10%	200V
R7319	1-208-803-91	RES,CHIP	7.5K	0.50%	1/10W	C5032	1-126-972-11	ELECT	1000μF	20%	50V
R7320	1-260-087-11	CARBON	100	5%	1/2W	C5033	1-101-002-00	CERAMIC	0.0022μF		50V
R7321	1-260-117-11	CARBON	33K	5%	1/2W	C5034	1-136-177-00	FILM	1μF	5%	50V
R7322	1-216-295-91	CONDUCTOR, CHIP	0			C5035	1-126-967-11	ELECT	47μF	20%	50V
R7323	1-216-033-00	RES,CHIP	220	5%	1/10W	C5036	1-164-096-11	CERAMIC	0.01μF	50V	
R7324	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	C5037	1-126-969-11	ELECT	220μF	20%	50V
R7326	1-208-803-91	RES,CHIP	7.5K	0.50%	1/10W	C5038	1-115-524-11	FILM	1.5μF	5%	250V
R7327	1-208-802-91	RES,CHIP	6.8K	0.50%	1/10W	C5039	1-117-836-11	FILM	6800PF	3%	2KV
						C5040	1-137-378-11	FILM	0.22μF	5%	50V
						C5041	1-137-420-11	FILM	0.047μF	10%	100V
						C5042	1-162-116-00	CERAMIC	680PF	10%	2KV
						C5043	1-162-116-00	CERAMIC	680PF	10%	2KV
						C5044	1-123-024-21	ELECT	33μF		160V
						C5045	1-162-114-00	CERAMIC	0.0047μF		2KV
						C5047	1-137-399-11	FILM	0.1μF	10%	100V
						C5048	1-137-399-11	FILM	0.1μF	10%	100V
						C5049	1-126-933-11	ELECT	100μF	20%	16V
*****						C5050	1-136-479-11	FILM	0.001μF	5%	50V
* A-1343-477-A D BOARD, COMPLETE (VAR)						C5051	1-102-228-00	CERAMIC	470PF	10%	500V
(KP-53XBR200)						C5052	1-126-972-11	ELECT	1000μF	20%	50V
* A-1343-476-A D BOARD, COMPLETE (VAR)						C5061	1-102-973-00	CERAMIC	100PF	5%	50V
(KP-61XBR200)						C5062	1-102-973-00	CERAMIC	100PF	5%	50V
*****						C5063	1-102-973-00	CERAMIC	100PF	5%	50V
4-363-414-00 SPACER, MICA						C5064	1-102-973-00	CERAMIC	100PF	5%	50V
4-382-854-11 SCREW (M3X10), P, SW (+)						C5065	1-102-973-00	CERAMIC	100PF	5%	50V
7-682-952-09 SCREW +PSW 3X16						C5066	1-102-973-00	CERAMIC	100PF	5%	50V
*****						C5071	1-126-968-11	ELECT	100μF	20%	50V
<CAPACITOR>						C5072	1-126-968-11	ELECT	100μF	20%	50V
C5001	1-104-664-11	ELECT	47μF	20%	25V	C5073	1-126-968-11	ELECT	100μF	20%	50V
C5002	1-126-960-11	ELECT	1μF	20%	50V	C5074	1-126-968-11	ELECT	100μF	20%	50V
C5003	1-104-664-11	ELECT	47μF	20%	25V	C5075	1-126-968-11	ELECT	100μF	20%	50V
C5004	1-101-002-00	CERAMIC	0.0022μF		50V	C5076	1-126-968-11	ELECT	100μF	20%	50V
C5005	1-130-495-00	FILM	0.1μF	5%	50V	C5079	1-126-968-11	ELECT	100μF	20%	50V
C5006	1-101-002-00	CERAMIC	0.0022μF		50V	C5080	1-126-968-11	ELECT	100μF	20%	50V
C5007	1-102-973-00	CERAMIC	100PF	5%	50V	C5085	1-101-002-00	CERAMIC	0.0022μF		50V
C5008	1-126-967-11	ELECT	47μF	20%	50V	C5086	1-130-495-00	FILM	0.1μF	5%	50V
C5010	1-102-973-00	CERAMIC	100PF	5%	50V	C5087	1-130-495-00	FILM	0.1μF	5%	50V
C5011	1-126-967-11	ELECT	47μF	20%	50V	C5088	1-115-521-11	FILM	0.82μF	5%	200V
C5012	1-107-637-11	ELECT	22μF	20%	160V	C5089	1-106-220-00	MYLAR	0.1μF	10%	100V
C5013	1-126-967-11	ELECT	47μF	20%	50V	C5090	1-126-960-11	ELECT	1μF	20%	50V
C5014	1-101-002-00	CERAMIC	0.0022μF		50V	C5091	1-126-942-61	ELECT	1000μF	20%	25V
C5015	1-101-880-00	CERAMIC	47PF	5%	50V	C5092	1-126-942-61	ELECT	1000μF	20%	25V
C5016	1-106-383-00	MYLAR	0.047μF	10%	200V	C5093	1-137-370-11	FILM	0.01μF	5%	50V
C5017	1-126-967-11	ELECT	47μF	20%	50V	C5094	1-137-370-11	FILM	0.01μF	5%	50V
C5018	1-126-963-11	ELECT	4.7μF	20%	50V	C5095	1-126-964-11	ELECT	10μF	20%	50V



REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK									
C8001	1-107-655-11	ELECT	47μF	20%	250V	C8064	1-130-495-00	FILM	0.1μF	5%	50V							
C8002	1-124-347-00	ELECT	100μF	20%	160V	C8065	1-126-964-11	ELECT	10μF	20%	50V							
C8003	1-124-347-00	ELECT	100μF	20%	160V	C8066	1-137-364-11	FILM	0.001μF	5%	50V							
C8004	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C8067	1-104-661-91	ELECT	330μF	20%	16V							
C8005	1-106-387-00	MYLAR	0.068μF	10%	200V	C8068	1-137-410-11	FILM	0.001μF	10%	100V							
C8006	1-126-959-11	ELECT	0.47μF	20%	50V	C8069	1-126-967-11	ELECT	47μF	20%	50V							
C8007	1-137-150-11	MYLAR	0.01μF	10%	100V	C8070	1-102-110-00	CERAMIC	220PF	10%	50V							
C8008	1-102-030-00	CERAMIC	330PF	10%	500V	C8071	1-126-963-11	ELECT	4.7μF	20%	50V							
C8009	1-102-244-00	CERAMIC	220PF	10%	500V	C8072	1-126-964-11	ELECT	10μF	20%	50V							
C8010	1-130-481-00	FILM	0.0068μF	5%	50V	C8073	1-126-967-11	ELECT	47μF	20%	50V							
C8011	1-126-934-11	ELECT	220μF	20%	16V	C8074	1-137-410-11	FILM	0.001μF	10%	100V							
C8012	1-136-347-11	FILM	0.0047μF	5%	630V	C8075	1-126-965-11	ELECT	22μF	20%	50V							
C8013	1-126-964-11	ELECT	10μF	20%	50V	C8076	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V							
C8014	1-102-228-00	CERAMIC	470PF	10%	500V	C8077	1-137-370-11	FILM	0.01μF	5%	50V							
C8015	1-126-933-11	ELECT	100μF	20%	16V	C8078	1-130-495-00	FILM	0.1μF	5%	50V							
C8016	1-126-964-11	ELECT	10μF	20%	50V	C8079	1-126-967-11	ELECT	47μF	20%	50V							
C8017	1-126-964-11	ELECT	10μF	20%	50V	C8080	1-126-967-11	ELECT	47μF	20%	50V							
C8018	1-117-838-11	FILM	8200PF	3%	2KV	C8081	1-126-967-11	ELECT	47μF	20%	50V							
C8019	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C8082	1-137-366-11	FILM	0.0022μF	5%	50V							
C8020	1-162-318-11	CERAMIC	0.001μF	10%	500V	C8083	1-126-964-11	ELECT	10μF	20%	50V							
C8021	1-136-601-11	FILM	0.01μF	5%	630V	C8084	1-126-967-11	ELECT	47μF	20%	50V							
C8023	1-126-767-11	ELECT	1000μF	20%	16V	C8085	1-104-661-91	ELECT	330μF	20%	16V							
C8024	1-126-968-11	ELECT	100μF	20%	50V	C8086	1-137-150-11	MYLAR	0.01μF	10%	100V							
C8025	1-128-562-11	ELECT	47μF	20%	100V	C8089	1-137-399-11	FILM	0.1μF	10%	100V							
C8026	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C8090	1-126-964-11	ELECT	10μF	20%	50V							
C8028	1-130-495-00	FILM	0.1μF	5%	50V	C8091	1-126-967-11	ELECT	47μF	20%	50V							
C8029	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C8092	1-126-964-11	ELECT	10μF	20%	50V							
C8030	1-126-967-11	ELECT	47μF	20%	50V	C8093	1-126-964-11	ELECT	10μF	20%	50V							
C8031	1-137-374-11	FILM	0.047μF	5%	50V	C8094	1-126-964-11	ELECT	10μF	20%	50V							
C8032	1-106-387-00	MYLAR	0.068μF	10%	200V	C8095	1-126-967-11	ELECT	47μF	20%	50V							
C8033	1-130-495-00	FILM	0.1μF	5%	50V	C8096	1-126-967-11	ELECT	47μF	20%	50V							
C8034	1-126-967-11	ELECT	47μF	20%	50V	C8097	1-126-967-11	ELECT	47μF	20%	50V							
C8035	1-126-967-11	ELECT	47μF	20%	50V	C8098	1-126-967-11	ELECT	47μF	20%	50V							
C8037	1-130-495-00	FILM	0.1μF	5%	50V	C8099	1-126-964-11	ELECT	10μF	20%	50V							
C8038	1-126-967-11	ELECT	47μF	20%	50V	C8100	1-162-114-00	CERAMIC	0.0047μF	2KV								
C8039	1-137-420-11	FILM	0.047μF	10%	100V	C8102	1-102-125-00	CERAMIC	0.0047μF	10%	50V							
C8040	1-126-964-11	ELECT	10μF	20%	50V	C8103	1-126-964-11	ELECT	10μF	20%	50V							
C8041	1-130-495-00	FILM	0.1μF	5%	50V	C8104	1-126-961-11	ELECT	2.2μF	20%	50V							
C8042	1-126-967-11	ELECT	47μF	20%	50V	C8105	1-163-237-11	CERAMIC CHIP	27PF	5%	50V							
C8043	1-130-495-00	FILM	0.1μF	5%	50V	C8106	1-163-237-11	CERAMIC CHIP	27PF	5%	50V							
C8045	1-137-431-11	FILM	560PF	5%	50V	C8107	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V							
C8046	1-130-495-00	FILM	0.1μF	5%	50V	C8108	1-163-243-11	CERAMIC CHIP	47PF	5%	50V							
C8047	1-130-495-00	FILM	0.1μF	5%	50V	C8109	1-102-125-00	CERAMIC	0.0047μF	10%	50V							
C8048	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C8110	1-126-964-11	ELECT	10μF	20%	50V							
C8049	1-126-967-11	ELECT	47μF	20%	50V	C8111	1-126-933-11	ELECT	100μF	20%	16V							
C8050	1-126-967-11	ELECT	47μF	20%	50V	<CONNECTOR>												
C8051	1-126-967-11	ELECT	47μF	20%	50V	CN5001	* 1-564-506-11	PLUG, CONNECTOR 3P										
C8052	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	CN5002	* 1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P										
C8053	1-126-960-11	ELECT	1μF	20%	50V	CN5003	* 1-564-509-11	PLUG, CONNECTOR 6P										
C8054	1-126-960-11	ELECT	1μF	20%	50V	CN5004	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P										
C8055	1-126-961-11	ELECT	2.2μF	20%	50V	CN5005	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P										
C8057	1-126-964-11	ELECT	10μF	20%	50V	CN5006	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P										
C8059	1-126-965-11	ELECT	22μF	20%	50V	CN5007	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P										
C8060	1-126-963-11	ELECT	4.7μF	20%	50V	CN5008	* 1-564-506-11	PLUG, CONNECTOR 3P										
C8061	1-126-965-11	ELECT	22μF	20%	50V													
C8062	1-126-965-11	ELECT	22μF	20%	50V													

KP-53XBR200/61XBR200
RM-Y902 RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CN5009 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P		D8026	8-719-914-43	DIODE DAN202K	
CN5010 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P		D8027	8-719-914-43	DIODE DAN202K	
CN5011 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P		D8029	8-719-914-43	DIODE DAN202K	
CN5012 *	1-564-507-11	PLUG, CONNECTOR 4P		D8030	8-719-400-75	DIODE MA3091	
CN5013 *	1-564-507-11	PLUG, CONNECTOR 4P		D8031	8-719-105-82	DIODE RD5.1M-B2	
CN5014 *	1-564-507-11	PLUG, CONNECTOR 4P		D8032	8-719-302-43	DIODE EL1Z	
CN8001 *	1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P		D8033	8-719-914-43	DIODE DAN202K	
CN8002	1-695-915-11	TAB (CONTACT)		D8034	8-719-028-00	DIODE MA3033-L	
CN8003	1-564-509-11	PLUG, CONNECTOR 6P		D8035	8-719-105-82	DIODE RD5.1M-B2	
CN8004 *	1-564-510-11	PLUG, CONNECTOR 7P		D8036	8-719-914-43	DIODE DAN202K	
CN8005 *	1-564-507-11	PLUG, CONNECTOR 4P		D8037	8-719-914-43	DIODE DAN202K	
CN8006 *	1-564-507-11	PLUG, CONNECTOR 4P		D8038	8-719-106-81	DIODE RD13M-B3	
CN8007 *	1-506-371-00	PIN, CONNECTOR 2P		D8039	8-719-110-17	DIODE RD10ESB2	
CN8008 *	1-506-371-00	PIN, CONNECTOR 2P		D8040	8-719-914-43	DIODE DAN202K	
CN8009	1-695-915-11	TAB (CONTACT)		D8041	8-719-106-81	DIODE RD13M-B3	
<DIODE>				D8042	8-759-157-40	IC UPC574J	
<FERRITE BEAD>				D8045	8-719-400-75	DIODE MA3091	
D5001	8-719-991-33	DIODE 1SS133T-77		D8046	8-719-402-57	DIODE MA3150H-TX	
D5002	8-719-991-33	DIODE 1SS133T-77		D8047	8-719-402-57	DIODE MA3150H-TX	
D5003	8-719-302-43	DIODE EL1Z		D8048	8-719-914-43	DIODE DAN202K	
D5004	8-719-991-33	DIODE 1SS133T-77		D8050	8-719-914-43	DIODE DAN202K	
D5005	8-719-109-89	DIODE RD5.6ESB2		D8051	8-719-914-44	DIODE DAP202K	
D5006	8-719-991-33	DIODE 1SS133T-77		D8052	8-719-914-43	DIODE DAN202K	
D5007	8-719-302-43	DIODE EL1Z		<IC>			
D5008	8-719-991-33	DIODE 1SS133T-77		IC5001	8-759-701-88	IC NJM7912FA	
D5009	8-719-979-85	DIODE EGP20G		IC5002	8-759-231-58	IC TA7812S	
D5010	8-719-908-03	DIODE GP08D		IC5004	8-759-192-71	IC STV9379	
D5011	8-719-908-03	DIODE GP08D		IC5005	8-749-014-67	IC STK392-020	
D5012	8-719-991-33	DIODE 1SS133T-77		IC5006	8-749-014-67	IC STK392-020	
D5013	8-719-979-99	DIODE ERD08M-15		IC8001	8-759-711-28	IC NJM2058D	
D5014	8-719-991-33	DIODE 1SS133T-77		IC8002	8-759-103-93	IC UPC393C	
D5015	8-719-018-82	DIODE RGP02-20EL-6394		IC8003	8-759-012-67	IC MC7905CT	
D5016	8-719-110-61	DIODE RD24ESB1		IC8004	8-759-231-53	IC TA7805S	
D5017	8-719-110-61	DIODE RD24ESB1		IC8005	8-759-183-37	IC CA0007AD	
D5018	8-719-991-33	DIODE 1SS133T-77		IC8006	8-759-103-93	IC UPC393C	
D8001	8-719-105-82	DIODE RD5.1M-B2		IC8007	8-759-711-28	IC NJM2058D	
D8002	8-719-914-43	DIODE DAN202K		IC8008	8-759-135-80	IC UPC358C	
D8003	8-719-979-85	DIODE EGP20G		IC8009	8-759-135-80	IC UPC358C	
D8004	8-719-914-43	DIODE DAN202K		IC8010	8-759-103-93	IC UPC393C	
D8005	8-719-914-43	DIODE DAN202K		<COIL>			
D8006	8-719-914-43	DIODE DAN202K		L5001	1-412-533-21	INDUCTOR	47μH
D8007	8-719-945-80	DIODE ERC06-15S		L5002	1-412-533-21	INDUCTOR	47μH
D8008	8-719-106-81	DIODE RD13M-B3		L5003	1-412-533-21	INDUCTOR	47μH
D8009	8-719-106-81	DIODE RD13M-B3		L5004	1-412-533-21	INDUCTOR	47μH
D8010	8-719-054-52	DIODE D8LC20U-4015		L5007	1-416-764-11	COIL, HORIZONTAL LINEARITY	
D8011	8-719-945-80	DIODE ERC06-15S		<IC>			
D8013	8-719-920-67	DIODE ERC91-02		L5008	1-406-665-11	INDUCTOR	0μH
D8014	8-719-302-43	DIODE EL1Z		L5009	1-412-524-11	INDUCTOR	8.2μH
D8015	8-719-914-43	DIODE DAN202K					
D8017	8-719-914-43	DIODE DAN202K					
D8018	8-719-983-14	DIODE MTZJ-T-77-3.9					
D8021	8-719-914-43	DIODE DAN202K					
D8023	8-719-914-43	DIODE DAN202K					
D8024	8-719-914-43	DIODE DAN202K					
D8025	8-719-914-43	DIODE DAN202K					



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L5010	1-412-533-21	INDUCTOR	47μH	Q8007	8-729-017-64	TRANSISTOR 2SC3997-YB	
L5011	1-412-533-21	INDUCTOR	47μH	Q8008	8-729-024-30	TRANSISTOR IRFI640LF	
L5012	1-412-533-21	INDUCTOR	47μH	Q8009	8-729-216-22	TRANSISTOR 2SA1162-G	
L5013	1-412-533-21	INDUCTOR	47μH	Q8010	8-729-216-22	TRANSISTOR 2SA1162-G	
L8001	1-414-223-11	INDUCTOR	470μH	Q8013	8-729-422-27	TRANSISTOR 2SD601A-Q	
L8002	1-406-977-21	INDUCTOR	0μH	Q8014	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
L8003	1-422-613-11	COIL, AIR CORE		Q8015	8-729-140-93	TRANSISTOR 2SB733-34	
L8004	1-412-521-31	INDUCTOR	4.7μH	Q8016	8-729-140-96	TRANSISTOR 2SD774-34	
L8005	1-412-533-21	INDUCTOR	47μH	Q8017	8-729-216-22	TRANSISTOR 2SA1162-G	
L8006	1-412-533-21	INDUCTOR	47μH	Q8018	8-729-231-55	TRANSISTOR 2SC2878-AB	
<NEON LAMP>				Q8019	8-729-422-27	TRANSISTOR 2SD601A-Q	
NL8001	1-517-778-21	LAMP, NEON		Q8020	8-729-422-27	TRANSISTOR 2SD601A-Q	
NL8002	1-517-778-21	LAMP, NEON		Q8021	8-729-422-27	TRANSISTOR 2SD601A-Q	
NL8003	1-517-778-21	LAMP, NEON		Q8022	8-729-422-27	TRANSISTOR 2SD601A-Q	
<IC LINK>				Q8023	8-729-027-38	TRANSISTOR DTA144EKA-T146	
PS5001	1-533-595-21	LINK, IC		Q8024	1-801-806-11	TRANSISTOR DTC144EKA-T146	
PS5002	1-533-595-21	LINK, IC		Q8025	8-729-027-38	TRANSISTOR DTA144EKA-T146	
PS8001	1-533-593-11	LINK, IC		Q8026	8-729-216-22	TRANSISTOR 2SA1162-G	
<TRANSISTOR>				Q8027	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5002	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q8028	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5003	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q8030	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
Q5004	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q8031	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5005	8-729-119-78	TRANSISTOR 2SC2785-HFE		<RESISTOR>			
Q5006	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5002	1-249-417-11	CARBON	1K 5% 1/4W
Q5007	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5003	1-249-417-11	CARBON	1K 5% 1/4W
Q5008	8-729-119-80	TRANSISTOR 2SC2688-LK		R5004	1-249-425-11	CARBON	4.7K 5% 1/4W
Q5009	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5006	1-249-417-11	CARBON	1K 5% 1/4W
Q5010	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5007	1-216-472-11	METAL OXIDE	39 5% 3W
Q5011	8-729-119-76	TRANSISTOR 2SA1175-HFE		(KP-61XBR200)			
Q5012	8-729-201-32	TRANSISTOR 2SA1013-O		R5007	1-216-474-11	METAL OXIDE	82 5% 3W
Q5013	8-729-017-64	TRANSISTOR 2SC3997-YB		(KP-53XBR200)			
Q5014	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5008	1-216-472-11	METAL OXIDE	39 5% 3W
Q5015	8-729-119-78	TRANSISTOR 2SC2785-HFE		(KP-61XBR200)			
Q5016	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5008	1-216-474-11	METAL OXIDE	82 5% 3W
Q5017	8-729-201-32	TRANSISTOR 2SA1013-O		(KP-53XBR200)			
Q5018	8-729-304-92	TRANSISTOR 2SB649A-C		R5009	1-249-421-11	CARBON	2.2K 5% 1/4W
Q5019	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5010	1-249-419-11	CARBON	1.5K 5% 1/4W
Q5020	8-729-044-88	TRANSISTOR 2SA1943-0(LBSONY)		R5011	1-247-843-11	CARBON	3.3K 5% 1/4W
Q5022	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5012	1-249-425-11	CARBON	4.7K 5% 1/4W
Q5023	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5013	1-249-425-11	CARBON	4.7K 5% 1/4W
Q5024	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5014	1-249-425-11	CARBON	4.7K 5% 1/4W
Q5025	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5015	1-249-418-11	CARBON	1.2K 5% 1/4W
Q5026	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5016	1-249-429-11	CARBON	10K 5% 1/4W
Q5027	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5017	1-247-863-91	CARBON	22K 5% 1/4W
Q8001	8-729-119-80	TRANSISTOR 2SC2688-LK		R5018	1-247-843-11	CARBON	3.3K 5% 1/4W
Q8002	8-729-122-12	TRANSISTOR 2SA1221-L		R5020	1-249-437-11	CARBON	47K 5% 1/4W
Q8003	8-729-119-80	TRANSISTOR 2SC2688-LK		R5021	1-215-445-00	METAL	10K 1% 1/4W
Q8004	8-729-823-81	TRANSISTOR 2SC4632LS-CB7		R5022	1-247-863-91	CARBON	22K 5% 1/4W
Q8005	8-729-231-55	TRANSISTOR 2SC2878-AB		R5023	1-247-863-91	CARBON	22K 5% 1/4W
Q8006	8-729-216-22	TRANSISTOR 2SA1162-G		R5024	1-249-427-11	CARBON	6.8K 5% 1/4W
				R5025	1-249-420-11	CARBON	1.8K 5% 1/4W
				R5026	1-215-897-11	METAL OXIDE	6.8K 5% 2W
				R5028	1-249-377-11	CARBON	0.47 5% 1/4W
				R5029	1-249-377-11	CARBON	0.47 5% 1/4W
				R5030	1-249-437-11	CARBON	47K 5% 1/4W

KP-53XBR200/61XBR200
 RM-Y902 RM-Y902

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
R5031	1-216-435-11	METAL OXIDE	2.7K	5%	1W	R5091	1-249-417-11	CARBON	1K	5%	1/4W
R5032	1-215-897-11	METAL OXIDE	6.8K	5%	2W	R5092	1-249-417-11	CARBON	1K	5%	1/4W
R5033	1-249-417-11	CARBON	1K	5%	1/4W	R5093	1-247-843-11	CARBON	3.3K	5%	1/4W
R5034	1-249-429-11	CARBON	10K	5%	1/4W	R5095	1-247-843-11	CARBON	3.3K	5%	1/4W
R5035	1-249-429-11	CARBON	10K	5%	1/4W	R5097	1-249-417-11	CARBON	1K	5%	1/4W
R5036	1-249-425-11	CARBON	4.7K	5%	1/4W	R5098	1-247-807-31	CARBON	100	5%	1/4W
R5037	1-249-417-11	CARBON	1K	5%	1/4W	R5099	1-249-417-11	CARBON	1K	5%	1/4W
R5039	1-249-429-11	CARBON	10K	5%	1/4W	R5100	1-247-807-31	CARBON	100	5%	1/4W
R5040	1-249-417-11	CARBON	1K	5%	1/4W	R5101	1-214-808-11	METAL	4.7	1%	1/2W
R5041	1-247-895-91	CARBON	470K	5%	1/4W	R5102	1-214-808-11	METAL	4.7	1%	1/2W
R5042	1-249-425-11	CARBON	4.7K	5%	1/4W	R5103	1-214-808-11	METAL	4.7	1%	1/2W
R5043	1-249-417-11	CARBON	1K	5%	1/4W	R5104	1-214-808-11	METAL	4.7	1%	1/2W
R5044	1-215-900-11	METAL OXIDE	22K	5%	2W	R5105	1-214-808-11	METAL	4.7	1%	1/2W
R5045	1-249-421-11	CARBON	2.2K	5%	1/4W	R5106	1-214-808-11	METAL	4.7	1%	1/2W
R5046	1-216-389-11	METAL OXIDE	1	5%	3W	R5107	1-249-417-11	CARBON	1K	5%	1/4W
R5047	1-215-450-00	METAL	16K	1%	1/4W	R5108	1-249-417-11	CARBON	1K	5%	1/4W
R5048	1-249-413-11	CARBON	470	5%	1/4W	R5109	1-214-808-11	METAL	4.7	1%	1/2W
R5049	1-215-905-11	METAL OXIDE	10	5%	3W	R5110	1-214-808-11	METAL	4.7	1%	1/2W
R5050	1-247-807-31	CARBON	100	5%	1/4W	R5111	1-214-808-11	METAL	4.7	1%	1/2W
R5051	1-249-435-11	CARBON	33K	5%	1/4W	R5112	1-214-808-11	METAL	4.7	1%	1/2W
R5052	1-249-430-11	CARBON	12K	5%	1/4W	R5113	1-214-808-11	METAL	4.7	1%	1/2W
R5053	1-249-429-11	CARBON	10K	5%	1/4W	R5114	1-214-808-11	METAL	4.7	1%	1/2W
R5054	1-249-413-11	CARBON	470	5%	1/4W	R5115	1-533-595-21	LINK, IC			
R5055	1-215-912-11	METAL OXIDE	150	5%	3W	R5116	1-533-595-21	LINK, IC			
R5056	1-249-417-11	CARBON	1K	5%	1/4W	R5117	1-214-808-11	METAL	4.7	1%	1/2W
R5057	1-249-429-11	CARBON	10K	5%	1/4W	R5118	1-214-808-11	METAL	4.7	1%	1/2W
R5058	1-249-430-11	CARBON	12K	5%	1/4W	R5119	1-533-595-21	LINK, IC			
R5059	1-249-383-11	CARBON	1.5	5%	1/4W	R5120	1-533-595-21	LINK, IC			
R5060	1-249-423-11	CARBON	3.3K	5%	1/4W	R5121	1-214-808-11	METAL	4.7	1%	1/2W
R5061	1-249-429-11	CARBON	10K	5%	1/4W	R5122	1-214-808-11	METAL	4.7	1%	1/2W
R5062	1-247-735-11	SOLID	47	20%	1/2W	R5123	1-214-808-11	METAL	4.7	1%	1/2W
R5063	1-247-807-31	CARBON	100	5%	1/4W	R5124	1-214-808-11	METAL	4.7	1%	1/2W
R5064	1-249-423-11	CARBON	3.3K	5%	1/4W	R5125	1-533-595-21	LINK, IC			
R5065	1-249-417-11	CARBON	1K	5%	1/4W	R5126	1-533-595-21	LINK, IC			
R5066	1-215-925-11	METAL OXIDE	22K	5%	3W	R5127	1-214-808-11	METAL	4.7	1%	1/2W
R5067	1-214-800-11	METAL	2.2	1%	1/2W	R5128	1-214-808-11	METAL	4.7	1%	1/2W
R5068	1-249-429-11	CARBON	10K	5%	1/4W	R5129	1-214-808-11	METAL	4.7	1%	1/2W
R5069	1-249-429-11	CARBON	10K	5%	1/4W	R5130	1-214-808-11	METAL	4.7	1%	1/2W
R5070	1-260-324-11	CARBON	470	5%	1/2W	R5131	1-214-808-11	METAL	4.7	1%	1/2W
R5071	1-214-800-11	METAL	2.2	1%	1/2W	R5132	1-214-808-11	METAL	4.7	1%	1/2W
R5072	1-247-807-31	CARBON	100	5%	1/4W	R5133	1-214-808-11	METAL	4.7	1%	1/2W
R5073	1-215-433-00	METAL	3.3K	1%	1/4W	R5134	1-214-808-11	METAL	4.7	1%	1/2W
R5074	1-249-437-11	CARBON	47K	5%	1/4W	R5135	1-214-808-11	METAL	4.7	1%	1/2W
R5075	1-215-445-00	METAL	10K	1%	1/4W	R5136	1-214-808-11	METAL	4.7	1%	1/2W
R5076	1-215-857-11	METAL OXIDE	10	5%	1W	R5137	1-214-808-11	METAL	4.7	1%	1/2W
R5077	1-216-477-11	METAL OXIDE	270	5%	3W	R5138	1-214-808-11	METAL	4.7	1%	1/2W
R5081	1-247-807-31	CARBON	100	5%	1/4W	R5143	1-249-429-11	CARBON	10K	5%	1/4W
R5082	1-247-807-31	CARBON	100	5%	1/4W	R5144	1-249-429-11	CARBON	10K	5%	1/4W
R5083	1-247-807-31	CARBON	100	5%	1/4W	R5145	1-249-429-11	CARBON	10K	5%	1/4W
R5084	1-247-807-31	CARBON	100	5%	1/4W	R5146	1-249-429-11	CARBON	10K	5%	1/4W
R5085	1-247-807-31	CARBON	100	5%	1/4W	R5147	1-249-429-11	CARBON	10K	5%	1/4W
R5086	1-247-807-31	CARBON	100	5%	1/4W	R5148	1-249-429-11	CARBON	10K	5%	1/4W
R5087	1-247-843-11	CARBON	3.3K	5%	1/4W	R5149	1-249-429-11	CARBON	10K	5%	1/4W
R5088	1-247-843-11	CARBON	3.3K	5%	1/4W	R5150	1-249-429-11	CARBON	10K	5%	1/4W
R5089	1-247-843-11	CARBON	3.3K	5%	1/4W	R5151	1-249-429-11	CARBON	10K	5%	1/4W
R5090	1-247-843-11	CARBON	3.3K	5%	1/4W	R5152	1-249-429-11	CARBON	10K	5%	1/4W



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
R5153	1-249-429-11	CARBON	10K	5% 1/4W	R8072	1-216-081-00	RES,CHIP	22K	5% 1/10W
R5154	1-249-429-11	CARBON	10K	5% 1/4W	R8073	1-216-109-00	RES,CHIP	330K	5% 1/10W
R5155	1-249-425-11	CARBON	4.7K	5% 1/4W					(KP-53XBR200)
R8001	1-249-425-11	CARBON	4.7K	5% 1/4W	R8073	1-216-689-11	RES,CHIP	39K	5% 1/10W
R8002	1-249-431-11	CARBON	15K	5% 1/4W					(KP-61XBR200)
R8003	1-216-057-00	RES,CHIP	2.2K	5% 1/10W	R8074	1-216-059-00	RES,CHIP	2.7K	5% 1/10W
R8004	1-260-328-11	CARBON	1K	5% 1/2W	R8075	1-260-316-51	CARBON	100	5% 1/2W
R8005	1-215-925-11	METAL OXIDE	22K	5% 3W	R8076	1-216-105-91	RES,CHIP	220K	5% 1/10W
R8006	1-260-123-11	CARBON	100K	5% 1/2W	R8077	1-216-091-00	RES,CHIP	56K	5% 1/10W
R8007	1-215-925-11	METAL OXIDE	22K	5% 3W	R8080	1-216-063-91	RES,CHIP	3.9K	5% 1/10W
R8008	1-216-059-00	RES,CHIP	2.7K	5% 1/10W	R8081	1-216-077-00	RES,CHIP	15K	5% 1/10W
R8009	1-216-435-11	METAL OXIDE	2.7K	5% 1W	R8082	1-216-073-00	RES,CHIP	10K	5% 1/10W
R8010	1-216-025-00	RES,CHIP	100	5% 1/10W	R8083	1-216-077-00	RES,CHIP	15K	5% 1/10W
R8011	1-216-065-91	RES,CHIP	4.7K	5% 1/10W	R8084	1-216-049-91	RES,CHIP	1K	5% 1/10W
R8012	1-216-484-00	METAL OXIDE	3.9K	5% 3W	R8085	1-249-377-11	CARBON	0.47	5% 1/4W
R8013	1-216-065-91	RES,CHIP	4.7K	5% 1/10W	R8086	1-216-049-91	RES,CHIP	1K	5% 1/10W
R8014	1-216-073-00	RES,CHIP	10K	5% 1/10W	R8087	1-216-073-00	RES,CHIP	10K	5% 1/10W
R8015	1-216-049-91	RES,CHIP	1K	5% 1/10W	R8088	1-216-041-00	RES,CHIP	470	5% 1/10W
									(KP-53XBR200)
R8016	1-216-484-00	METAL OXIDE	3.9K	5% 3W	R8088	1-216-049-00	RES,CHIP	1K	5% 1/10W
R8017	1-216-073-00	RES,CHIP	10K	5% 1/10W					(KP-61XBR200)
R8018	1-216-073-00	RES,CHIP	10K	5% 1/10W	R8090	1-216-081-00	RES,CHIP	22K	5% 1/10W
R8019	1-215-905-11	METAL OXIDE	10	5% 3W	R8091	1-216-067-00	RES,CHIP	5.6K	5% 1/10W
R8020	1-216-484-00	METAL OXIDE	3.9K	5% 3W	R8092	1-216-073-00	RES,CHIP	10K	5% 1/10W
R8021	1-216-073-00	RES,CHIP	10K	5% 1/10W	R8093	1-216-049-91	RES,CHIP	1K	5% 1/10W
R8022	1-216-097-91	RES,CHIP	100K	5% 1/10W	R8094	1-216-067-00	RES,CHIP	5.6K	5% 1/10W
R8023	1-215-870-11	METAL OXIDE	1.5K	5% 1W	R8095	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R8024	1-249-427-11	CARBON	6.8K	5% 1/4W	R8096	1-216-045-00	RES,CHIP	680	5% 1/10W
R8026	1-215-902-11	METAL OXIDE	47K	5% 2W	R8097	1-216-081-00	RES,CHIP	22K	5% 1/10W
R8027	1-216-059-00	RES,CHIP	2.7K	5% 1/10W	R8098	1-216-073-00	RES,CHIP	10K	5% 1/10W
R8028	1-216-089-91	RES,CHIP	47K	5% 1/10W	R8099	1-216-059-00	RES,CHIP	2.7K	5% 1/10W
R8030	1-215-902-11	METAL OXIDE	47K	5% 2W	R8100	1-216-097-91	RES,CHIP	100K	5% 1/10W
R8031	1-216-073-00	RES,CHIP	10K	5% 1/10W	R8101	1-216-055-00	RES,CHIP	1.8K	5% 1/10W
R8033	1-215-902-11	METAL OXIDE	47K	5% 2W	R8102	1-216-073-00	RES,CHIP	10K	5% 1/10W
R8036	1-216-071-00	RES,CHIP	8.2K	5% 1/10W	R8103	1-216-053-00	RES,CHIP	1.5K	5% 1/10W
R8037	1-216-085-00	RES,CHIP	33K	5% 1/10W	R8105	1-216-689-11	RES,CHIP	39K	5% 1/10W
R8038	1-216-376-00	METAL OXIDE	3.9	5% 2W	R8106	1-216-089-91	RES,CHIP	47K	5% 1/10W
R8039	1-216-376-00	METAL OXIDE	3.9	5% 2W	R8107	1-216-053-00	RES,CHIP	1.5K	5% 1/10W
R8041	1-215-902-11	METAL OXIDE	47K	5% 2W	R8108	1-216-055-00	RES,CHIP	1.8K	5% 1/10W
R8044	1-216-049-91	RES,CHIP	1K	5% 1/10W	R8109	1-208-806-11	RES,CHIP	10K	0.50% 1/10W
R8046	1-216-025-00	RES,CHIP	100	5% 1/10W	R8110	1-208-810-11	RES,CHIP	15K	0.50% 1/10W
R8049	1-216-049-91	RES,CHIP	1K	5% 1/10W	R8111	1-208-774-11	RES,CHIP	470	0.50% 1/10W
R8050	1-260-099-11	CARBON	1K	5% 1/2W	R8112	1-216-077-00	RES,CHIP	15K	5% 1/10W
R8051	1-216-025-00	RES,CHIP	100	5% 1/10W	R8113	1-216-073-00	RES,CHIP	10K	5% 1/10W
R8055	1-260-087-11	CARBON	100	5% 1/2W	R8114	1-216-025-00	RES,CHIP	100	5% 1/10W
R8057	1-216-045-00	RES,CHIP	680	5% 1/10W	R8115	1-216-089-91	RES,CHIP	47K	5% 1/10W
R8058	1-216-025-00	RES,CHIP	100	5% 1/10W	R8116	1-216-097-91	RES,CHIP	100K	5% 1/10W
R8059	1-216-069-00	RES,CHIP	6.8K	5% 1/10W	R8117	1-208-806-11	RES,CHIP	10K	0.50% 1/10W
R8060	1-216-057-00	RES,CHIP	2.2K	5% 1/10W	R8118	1-216-053-00	RES,CHIP	1.5K	5% 1/10W
R8063	1-216-051-00	RES,CHIP	1.2K	5% 1/10W	R8119	1-208-774-11	RES,CHIP	470	0.50% 1/10W
R8064	1-216-426-11	METAL OXIDE	82	5% 1W	R8120	1-216-049-91	RES,CHIP	1K	5% 1/10W
R8065	1-216-045-00	RES,CHIP	680	5% 1/10W	R8121	1-249-377-11	CARBON	0.47	5% 1/4W
R8067	1-216-059-00	RES,CHIP	2.7K	5% 1/10W	R8122	1-216-097-91	RES,CHIP	100K	5% 1/10W
R8068	1-216-037-00	RES,CHIP	330	5% 1/10W	R8123	1-208-822-11	RES,CHIP	47K	0.50% 1/10W
R8069	1-216-426-11	METAL OXIDE	82	5% 1W	R8125	1-208-822-11	RES,CHIP	47K	0.50% 1/10W
R8070	1-260-316-51	CARBON	100	5% 1/2W	R8126	1-216-081-00	RES,CHIP	22K	5% 1/10W
R8071	1-216-113-00	RES,CHIP	470K	5% 1/10W					

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

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- The components identified by **█** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R8127	1-216-037-00	RES,CHIP	330 5% 1/10W	R8203	1-216-083-00	RES,CHIP	27K 5% 1/10W
R8128	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8204	1-216-081-00	RES,CHIP	22K 5% 1/10W
R8129	1-208-822-11	RES,CHIP	47K 0.50% 1/10W	R8205	1-216-099-00	RES,CHIP	120K 5% 1/10W
R8132	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R8206	1-216-097-91	RES,CHIP	100K 5% 1/10W
R8133	1-208-832-11	RES,CHIP	120K 0.50% 1/10W	R8207	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8134	1-208-834-11	RES,CHIP	150K 0.50% 1/10W	R8208	1-260-087-11	CARBON	100 5% 1/2W
R8135	1-216-097-91	RES,CHIP	100K 5% 1/10W	R8209	1-216-051-00	RES,CHIP	1.2K 5% 1/10W (KP-53XBR200)
R8136	1-216-097-91	RES,CHIP	100K 5% 1/10W	R8210	1-216-075-00	RES,CHIP	12K 5% 1/10W (KP-61XBR200)
R8137	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R8210	1-216-081-00	RES,CHIP	22K 5% 1/10W (KP-53XBR200)
R8138	1-216-025-00	RES,CHIP	100 5% 1/10W	R8211	1-216-057-00	RES,CHIP	2.2K 5% 1/10W (KP-53XBR200)
R8139	1-216-097-91	RES,CHIP	100K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8140	1-208-822-11	RES,CHIP	47K 0.50% 1/10W	R8212	1-216-045-00	RES,CHIP	680 5% 1/10W (KP-53XBR200)
R8154	1-216-043-91	RES,CHIP	560 5% 1/10W	R8212	1-216-049-00	RES,CHIP	1K 5% 1/10W (KP-61XBR200)
R8155	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8156	1-214-745-00	METAL	4.7K 1% 1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8157	1-208-774-11	RES,CHIP	470 0.50% 1/10W	R8212	1-216-045-00	RES,CHIP	680 5% 1/10W (KP-53XBR200)
R8160	1-214-747-00	METAL	5.6K 1% 1/4W	R8212	1-216-049-00	RES,CHIP	1K 5% 1/10W (KP-61XBR200)
R8161	1-215-423-00	METAL	1.2K 1% 1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8162	1-214-757-00	METAL	15K 1% 1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8163	1-214-757-00	METAL	15K 1% 1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8164	1-214-757-00	METAL	15K 1% 1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8165	1-214-757-00	METAL	15K 1% 1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8166	1-208-814-11	RES,CHIP	22K 0.50% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8167	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8168	1-208-802-11	RES,CHIP	6.8K 0.50% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8170	1-216-097-91	RES,CHIP	100K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8171	1-216-097-91	RES,CHIP	100K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8172	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8173	1-208-812-11	RES,CHIP	18K 0.50% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8174	1-216-025-00	RES,CHIP	100 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8175	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8176	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8177	1-216-462-00	METAL OXIDE	8.2K 5% 2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8178	1-215-897-11	METAL OXIDE	6.8K 5% 2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8181	1-215-900-11	METAL OXIDE	22K 5% 2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8182	1-215-901-00	METAL OXIDE	33K 5% 2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8183	1-260-292-11	CARBON	1 5% 1/2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8184	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8185	1-216-081-00	RES,CHIP	22K 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8186	1-216-037-00	RES,CHIP	330 5% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8187	1-215-901-00	METAL OXIDE	33K 5% 2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8188	1-216-466-71	METAL OXIDE	39K 5% 2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8189	1-260-099-11	CARBON	1K 5% 1/2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8190	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8191	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8192	1-208-802-11	RES,CHIP	6.8K 0.50% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8193	1-208-814-11	RES,CHIP	22K 0.50% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
█ R8194 ▲		CARBON	1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8195	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
█ R8196 ▲		CARBON	1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8197	1-260-087-11	CARBON	100 5% 1/2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8198	1-214-769-00	METAL	47K 1% 1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8199	1-260-288-11	CARBON	0.47 5% 1/2W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
R8200	1-247-887-00	CARBON	220K 5% 1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
█ R8201 ▲		METAL	1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
█ R8202 ▲		METAL	1/4W	R8211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KP-61XBR200)
<CAPACITOR>							
C3101	1-136-165-00	FILM	0.1μF 5% 50V				
<CONNECTOR>							
CN3101	* 1-564-521-11	PLUG, CONNECTOR 6P					
CN3102	* 1-564-518-11	PLUG, CONNECTOR 3P					
CN3103	* 1-564-518-11	PLUG, CONNECTOR 3P					
<DIODE>							
D3101	8-719-053-43	DIODE SLR-325VCT31					

HA	HB	HC	U
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REF. NO.	PART NO.	DESCRIPTION	REMARK		REF. NO.	PART NO.	DESCRIPTION	REMARK		
D3102	8-719-053-43	DIODE SLR-325VCT31			<SWITCH>					
			<RESISTOR>		S3201	1-572-198-11	SWITCH, KEYBOARD			
R3101	1-215-417-00	METAL	680	1%	1/4W	S3202	1-572-198-11	SWITCH, KEYBOARD		
R3102	1-215-421-00	METAL	1K	1%	1/4W			*****		
R3103	1-215-423-00	METAL	1.2K	1%	1/4W			*****		
R3104	1-215-427-00	METAL	1.8K	1%	1/4W			*****		
R3105	1-215-433-00	METAL	3.3K	1%	1/4W			* A-1372-450-A HC BOARD, COMPLETE		

			<SWITCH>							
S3101	1-572-198-11	SWITCH, KEYBOARD						<CONNECTOR>		
S3102	1-572-198-11	SWITCH, KEYBOARD						CN3301 * 1-564-518-11 PLUG, CONNECTOR 3P		
S3103	1-572-198-11	SWITCH, KEYBOARD								
S3104	1-572-198-11	SWITCH, KEYBOARD						<DIODE>		
S3105	1-572-198-11	SWITCH, KEYBOARD						D3301 8-719-109-89 DIODE RD5.6ESB2		
S3106	1-572-198-11	SWITCH, KEYBOARD						D3302 8-719-109-89 DIODE RD5.6ESB2		

			* A-1372-449-A HB BOARD, COMPLETE					<IC>		
			*****					IC3301 8-742-088-10 HYB IC SBX1780-51(10)		

			<CONNECTOR>					<RESISTOR>		
CN3201	* 1-564-526-11	PLUG, CONNECTOR 11P						R3301 1-247-807-31 CARBON		
CN3202	* 1-564-518-11	PLUG, CONNECTOR 3P						R3302 1-247-807-31 CARBON		
								100 5% 1/4W		
								100 5% 1/4W		

			<DIODE>					*****		
D3201	8-719-108-12	DIODE RD9.1EW						* A-1373-675-A U BOARD, COMPLETE		
D3202	8-719-108-12	DIODE RD9.1EW						*****		
D3203	8-719-108-12	DIODE RD9.1EW								
D3204	8-719-108-12	DIODE RD9.1EW						<CAPACITOR>		
D3205	8-719-108-12	DIODE RD9.1EW						C3501 1-126-964-11 ELECT		
D3206	8-719-108-12	DIODE RD9.1EW						C3502 1-163-031-11 CERAMIC CHIP		
			<JACK>					C3503 1-163-009-11 CERAMIC CHIP		
J3201	1-770-361-11	TERMINAL BLOCK, S						C3504 1-163-009-11 CERAMIC CHIP		
			<RESISTOR>					C3524 1-163-009-11 CERAMIC CHIP		
R3201	1-247-804-11	CARBON	75	5%	1/4W			0.001μF 10% 50V		
R3202	1-249-417-11	CARBON	1K	5%	1/4W			C3525 1-163-009-11 CERAMIC CHIP		
R3203	1-247-804-11	CARBON	75	5%	1/4W			0.001μF 10% 50V		
R3204	1-247-804-11	CARBON	75	5%	1/4W			C3526 1-163-009-11 CERAMIC CHIP		
R3205	1-247-895-91	CARBON	470K	5%	1/4W			0.001μF 10% 50V		
R3206	1-247-895-91	CARBON	470K	5%	1/4W			*****		
R3207	1-215-441-00	METAL	6.8K	1%	1/4W			<CONNECTOR>		
R3209	1-215-451-00	METAL	18K	1%	1/4W			CN3501 * 1-564-522-11 PLUG, CONNECTOR 7P		
			<DIODE>					*****		
D3501	8-719-158-15	DIODE RD5.6SB						D3501 8-719-158-15 DIODE RD5.6SB		
D3502	8-719-158-15	DIODE RD5.6SB						D3502 8-719-158-15 DIODE RD5.6SB		
D3503	8-719-158-15	DIODE RD5.6SB						D3503 8-719-158-15 DIODE RD5.6SB		
D3504	8-719-158-15	DIODE RD5.6SB						D3504 8-719-158-15 DIODE RD5.6SB		

KP-53XBR200/61XBR200

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<IC>		C2116	1-164-161-11	CERAMIC CHIP	0.0022μF 10%
IC3501	8-759-470-63	IC NJM2145M-TE2		C2117	1-104-664-11	ELECT	47μF 20%
		<JACK>		C2118	1-130-495-00	FILM	0.1μF 5%
J3501	1-764-143-11	JACK 3P		C2121	1-126-965-11	ELECT	22μF 20%
J3502	1-764-143-11	JACK 3P		C2122	1-136-177-00	FILM	1μF 5%
J3503	1-764-143-11	JACK 3P		C2123	1-137-370-11	FILM	0.01μF 5%
J3504	1-764-143-11	JACK 3P		C2124	1-137-365-11	FILM	0.0015μF 5%
		<TRANSISTOR>		C2125	1-137-375-11	FILM	0.068μF 5%
Q3501	8-729-216-22	TRANSISTOR 2SA1162-G		C2126	1-130-495-00	FILM	0.1μF 5%
Q3503	8-729-216-22	TRANSISTOR 2SA1162-G		C2127	1-130-495-00	FILM	0.1μF 5%
Q3505	8-729-216-22	TRANSISTOR 2SA1162-G		C2128	1-137-375-11	FILM	0.068μF 5%
		<RESISTOR>		C2129	1-137-370-11	FILM	0.01μF 5%
R3501	1-216-009-00	RES,CHIP	22 5% 1/10W	C2130	1-137-434-11	FILM	0.0018μF 5%
R3503	1-216-009-00	RES,CHIP	22 5% 1/10W	C2131	1-130-495-00	FILM	0.1μF 5%
R3505	1-216-009-00	RES,CHIP	22 5% 1/10W	C2132	1-130-495-00	FILM	0.1μF 5%
R3507	1-216-009-00	RES,CHIP	22 5% 1/10W	C2133	1-130-495-00	FILM	0.1μF 5%
R3509	1-216-073-00	RES,CHIP	10K 5% 1/10W	C2134	1-137-365-11	FILM	0.0015μF 5%
R3511	1-216-073-00	RES,CHIP	10K 5% 1/10W	C2135	1-136-356-11	FILM	470PF 5%
R3513	1-216-073-00	RES,CHIP	10K 5% 1/10W	C2136	1-136-357-11	FILM	680PF 5%
R3515	1-216-025-91	RES,CHIP	100 5% 1/10W	C2137	1-137-437-11	FILM	0.0056μF 5%
R3516	1-216-025-91	RES,CHIP	100 5% 1/10W	C2138	1-137-374-11	FILM	0.047μF 5%
R3517	1-216-025-91	RES,CHIP	100 5% 1/10W	C2139	1-136-175-00	FILM	0.68μF 5%
R3518	1-216-025-91	RES,CHIP	100 5% 1/10W	C2140	1-137-378-11	FILM	0.22μF 5%
R3519	1-216-025-91	RES,CHIP	100 5% 1/10W	C2141	1-137-378-11	FILM	0.22μF 5%
R3520	1-216-025-91	RES,CHIP	100 5% 1/10W	C2142	1-126-963-11	ELECT	4.7μF 20%
R3521	1-216-025-91	RES,CHIP	100 5% 1/10W	C2143	1-126-963-11	ELECT	4.7μF 20%
R3522	1-216-025-91	RES,CHIP	100 5% 1/10W	C2144	1-137-378-11	FILM	0.22μF 5%
R3523	1-216-025-91	RES,CHIP	100 5% 1/10W	C2145	1-137-378-11	FILM	0.22μF 5%
				C2146	1-130-495-00	FILM	0.1μF 5%
				C2147	1-137-374-11	FILM	0.047μF 5%
				C2148	1-137-374-11	FILM	0.047μF 5%
				C2149	1-130-495-00	FILM	0.1μF 5%
				C2150	1-130-495-00	FILM	0.1μF 5%
				C2151	1-137-372-11	FILM	0.022μF 5%
				C2152	1-137-372-11	FILM	0.022μF 5%
				C2153	1-130-495-00	FILM	0.1μF 5%
				C2154	1-136-357-11	FILM	680PF 5%
				C2155	1-130-495-00	FILM	0.1μF 5%
				C2156	1-130-495-00	FILM	0.1μF 5%
				C2157	1-126-965-11	ELECT	22μF 20%
				C2158	1-126-964-11	ELECT	10μF 20%
				C2159	1-137-437-11	FILM	0.0056μF 5%
				C2160	1-128-549-11	ELECT	3300μF 20%
				C2161	1-128-549-11	ELECT	3300μF 20%
				C2162	1-130-495-00	FILM	0.1μF 5%
				C2163	1-130-495-00	FILM	0.1μF 5%
				C2164	1-107-698-11	ELECT	10μF 20%
				C2165	1-107-698-11	ELECT	10μF 20%
				C2166	1-126-965-11	ELECT	22μF 20%
				C2167	1-126-935-11	ELECT	470μF 20%
				C2168	1-126-933-11	ELECT	100μF 20%
				C2169	1-136-357-11	FILM	680PF 5%
				C2170	1-130-495-00	FILM	0.1μF 5%
				C2171	1-130-495-00	FILM	0.1μF 5%
				C2172	1-104-664-11	ELECT	47μF 20%
				C2173	1-104-664-11	ELECT	47μF 20%



REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
C2174	1-126-933-11	ELECT	100μF	20%	16V	C2627	1-130-495-00	FILM	0.1μF	5%	50V
C2176	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C2628	1-130-495-00	FILM	0.1μF	5%	50V
C2177	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C2631	1-104-665-11	ELECT	100μF	20%	25V
C2178	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C2632	1-104-665-11	ELECT	100μF	20%	25V
C2301	1-126-960-11	ELECT	1μF	20%	50V	C2633	1-107-718-91	ELECT	100μF	20%	50V
C2302	1-126-960-11	ELECT	1μF	20%	50V	C2801	1-126-960-11	ELECT	1μF	20%	50V
C2303	1-126-965-11	ELECT	22μF	20%	50V	C2802	1-126-960-11	ELECT	1μF	20%	50V
C2304	1-163-014-00	CERAMIC CHIP	0.0027μF	5%	50V	C2803	1-126-964-11	ELECT	10μF	20%	50V
C2305	1-163-014-00	CERAMIC CHIP	0.0027μF	5%	50V	C2804	1-126-964-11	ELECT	10μF	20%	50V
C2306	1-126-961-11	ELECT	2.2μF	20%	50V	<CONNECTOR>					
C2307	1-163-038-91	CERAMIC CHIP	0.1μF		25V	CN2101 *	1-691-757-11	PIN, CONNECTOR (PC BOARD)	8P		
C2308	1-163-038-91	CERAMIC CHIP	0.1μF		25V	CN2102 *	1-564-510-11	PLUG, CONNECTOR	7P		
C2309	1-163-038-91	CERAMIC CHIP	0.1μF		25V	CN2103	1-564-513-11	PLUG, CONNECTOR	10P		
C2310	1-163-038-91	CERAMIC CHIP	0.1μF		25V	CN2601 *	1-564-507-11	PLUG, CONNECTOR	4P		
C2311	1-126-961-11	ELECT	2.2μF	20%	50V	CN2602 *	1-691-135-11	PIN, CONNECTOR (PC BOARD)	4P		
C2312	1-126-965-11	ELECT	22μF	20%	50V	CN2603 * 1-691-134-11 PIN, CONNECTOR (PC BOARD) 2P					
C2313	1-163-014-00	CERAMIC CHIP	0.0027μF	5%	50V	<DIODE>					
C2314	1-163-014-00	CERAMIC CHIP	0.0027μF	5%	50V	D2101	8-719-404-49	DIODE MA111			
C2315	1-126-961-11	ELECT	2.2μF	20%	50V	D2102	8-719-404-49	DIODE MA111			
C2316	1-163-038-91	CERAMIC CHIP	0.1μF		25V	D2103	8-719-404-49	DIODE MA111			
C2317	1-163-038-91	CERAMIC CHIP	0.1μF		25V	D2104	8-719-404-49	DIODE MA111			
C2318	1-163-038-91	CERAMIC CHIP	0.1μF		25V	D2105	8-719-404-49	DIODE MA111			
C2319	1-163-038-91	CERAMIC CHIP	0.1μF		25V	D2106	8-719-404-49	DIODE MA111			
C2320	1-126-961-11	ELECT	2.2μF	20%	50V	D2107	8-719-404-49	DIODE MA111			
C2321	1-107-698-11	ELECT	10μF	20%	25V	D2108	8-719-404-49	DIODE MA111			
C2322	1-107-698-11	ELECT	10μF	20%	25V	D2109	8-719-404-49	DIODE MA111			
C2323	1-107-698-11	ELECT	10μF	20%	25V	D2110	8-719-404-49	DIODE MA111			
C2324	1-107-698-11	ELECT	10μF	20%	25V	D2111	8-719-404-49	DIODE MA111			
C2325	1-126-964-11	ELECT	10μF	20%	50V	D2112	8-719-404-49	DIODE MA111			
C2326	1-126-964-11	ELECT	10μF	20%	50V	D2113	8-719-977-28	DIODE DTZ10B			
C2327	1-104-664-11	ELECT	47μF	20%	25V	D2114	8-719-977-28	DIODE DTZ10B			
C2328	1-104-664-11	ELECT	47μF	20%	25V	D2115	8-719-977-28	DIODE DTZ10B			
C2329	1-104-664-11	ELECT	47μF	20%	25V	D2116	8-719-404-49	DIODE MA111			
C2601	1-126-960-11	ELECT	1μF	20%	50V	D2601	8-719-404-49	DIODE MA111			
C2602	1-126-964-11	ELECT	10μF	20%	50V	D2602	8-719-402-92	DIODE MA3220M-TX			
C2605	1-126-964-11	ELECT	10μF	20%	50V	D2603	8-719-402-92	DIODE MA3220M-TX			
C2606	1-130-495-00	FILM	0.1μF	5%	50V	D2604	8-719-402-92	DIODE MA3220M-TX			
C2607	1-130-495-00	FILM	0.1μF	5%	50V	D2605	8-719-402-92	DIODE MA3220M-TX			
C2608	1-126-960-11	ELECT	1μF	20%	50V	D2606	8-719-402-92	DIODE MA3220M-TX			
C2609	1-130-495-00	FILM	0.1μF	5%	50V	D2607	8-719-402-92	DIODE MA3220M-TX			
C2610	1-130-495-00	FILM	0.1μF	5%	50V	D2608	8-719-402-92	DIODE MA3220M-TX			
C2611	1-130-495-00	FILM	0.1μF	5%	50V	D2609	8-719-402-92	DIODE MA3220M-TX			
C2612	1-126-960-11	ELECT	1μF	20%	50V	D2610	8-719-402-92	DIODE MA3220M-TX			
C2613	1-126-960-11	ELECT	1μF	20%	50V	D2611	8-719-404-49	DIODE MA111			
C2614	1-126-960-11	ELECT	1μF	20%	50V	D2612	8-719-404-49	DIODE MA111			
C2615	1-126-964-11	ELECT	10μF	20%	50V	D2613	8-719-404-49	DIODE MA111			
C2617	1-130-495-00	FILM	0.1μF	5%	50V	D2614	8-719-402-92	DIODE MA3220M-TX			
C2618	1-130-495-00	FILM	0.1μF	5%	50V	D2615	8-719-402-92	DIODE MA3220M-TX			
C2619	1-130-495-00	FILM	0.1μF	5%	50V	D2616	8-719-402-92	DIODE MA3220M-TX			
C2620	1-126-963-11	ELECT	4.7μF	20%	50V	D2617	8-719-402-92	DIODE MA3220M-TX			
C2621	1-126-960-11	ELECT	1μF	20%	50V	D2618	8-719-404-49	DIODE MA111			
C2622	1-130-495-00	FILM	0.1μF	5%	50V	D2619	8-719-402-92	DIODE MA3220M-TX			
C2623	1-126-964-11	ELECT	10μF	20%	50V	D2620	8-719-402-92	DIODE MA3220M-TX			
C2624	1-126-964-11	ELECT	10μF	20%	50V						
C2625	1-104-664-11	ELECT	47μF	20%	25V						
C2626	1-104-664-11	ELECT	47μF	20%	25V						

KP-53XBR200/61XBR200
 RM-Y902 RM-Y902

K

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>							
D2621	8-719-977-28	DIODE DTZ10B		R2104	1-216-477-11	METAL OXIDE	270 5% 3W
D2622	8-719-977-28	DIODE DTZ10B		R2105	1-215-912-11	METAL OXIDE	150 5% 3W
D2623	8-719-977-28	DIODE DTZ10B		R2106	1-216-295-91	CONDUCTOR, CHIP	0
D2624	8-719-977-28	DIODE DTZ10B		R2107	1-215-912-11	METAL OXIDE	150 5% 3W
D2801	8-719-400-75	DIODE MA3091		R2109	1-216-073-00	RES,CHIP	10K 5% 1/10W
D2802	8-719-400-75	DIODE MA3091		R2110	1-216-081-00	RES,CHIP	22K 5% 1/10W
D2803	8-719-400-75	DIODE MA3091		R2111	1-216-025-91	RES,CHIP	100 5% 1/10W
D2804	8-719-400-75	DIODE MA3091		R2112	1-216-025-91	RES,CHIP	100 5% 1/10W
D2805	8-719-400-75	DIODE MA3091		R2113	1-216-025-91	RES,CHIP	100 5% 1/10W
D2806	8-719-400-75	DIODE MA3091		R2114	1-216-121-91	RES,CHIP	1M 5% 1/10W
D2807	8-719-400-75	DIODE MA3091		R2115	1-216-089-91	RES,CHIP	47K 5% 1/10W
D2808	8-719-400-75	DIODE MA3091		R2116	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
<IC>							
IC2102	8-759-231-53	IC TA7805S		R2117	1-216-089-91	RES,CHIP	47K 5% 1/10W
IC2103	8-759-198-03	IC PQ09RF21		R2118	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
IC2104	8-759-231-58	IC TA7812S		R2119	1-216-081-00	RES,CHIP	22K 5% 1/10W
IC2105	8-759-544-37	IC NJW1103		R2120	1-216-081-00	RES,CHIP	22K 5% 1/10W
IC2301	8-759-634-51	IC M5218AP		R2121	1-216-109-00	RES,CHIP	330K 5% 1/10W
IC2302	8-759-544-72	IC TDA7312		R2122	1-216-089-91	RES,CHIP	47K 5% 1/10W
IC2303	8-759-544-72	IC TDA7312		R2123	1-216-077-00	RES,CHIP	15K 5% 1/10W
IC2601	8-759-190-89	IC TDA7265		R2124	1-216-077-00	RES,CHIP	15K 5% 1/10W
IC2602	8-759-072-99	IC TDA2052		R2125	1-216-081-00	RES,CHIP	22K 5% 1/10W
IC2603	8-759-190-89	IC TDA7265		R2126	1-216-081-00	RES,CHIP	22K 5% 1/10W
<JACK>							
J2601	1-785-083-11	JACK BLOCK, PIN 2P		R2127	1-216-129-00	RES,CHIP	2.2M 5% 1/10W
J2602	1-785-083-21	JACK BLOCK, PIN 2P		R2128	1-216-097-91	RES,CHIP	100K 5% 1/10W
<TRANSISTOR>							
Q2101	8-729-422-27	TRANSISTOR 2SD601A-Q		R2129	1-216-105-91	RES,CHIP	220K 5% 1/10W
Q2102	8-729-422-27	TRANSISTOR 2SD601A-Q		R2133	1-216-025-91	RES,CHIP	100 5% 1/10W
Q2103	8-729-216-22	TRANSISTOR 2SA1162-G		R2134	1-216-025-91	RES,CHIP	100 5% 1/10W
Q2104	8-729-216-22	TRANSISTOR 2SA1162-G		R2135	1-216-025-91	RES,CHIP	100 5% 1/10W
Q2105	8-729-422-27	TRANSISTOR 2SD601A-Q		R2136	1-216-025-91	RES,CHIP	100 5% 1/10W
Q2106	8-729-422-27	TRANSISTOR 2SD601A-Q		R2137	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2601	8-729-422-27	TRANSISTOR 2SD601A-Q		R2138	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2602	8-729-422-27	TRANSISTOR 2SD601A-Q		R2139	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q2603	8-729-216-22	TRANSISTOR 2SA1162-G		R2140	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q2604	8-729-422-27	TRANSISTOR 2SD601A-Q		R2141	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q2605	8-729-422-27	TRANSISTOR 2SD601A-Q		R2142	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q2606	8-729-422-27	TRANSISTOR 2SD601A-Q		R2143	1-216-025-91	RES,CHIP	100 5% 1/10W
Q2607	8-729-422-27	TRANSISTOR 2SD601A-Q		R2144	1-216-077-00	RES,CHIP	15K 5% 1/10W
Q2608	8-729-422-27	TRANSISTOR 2SD601A-Q		R2145	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q2609	8-729-422-27	TRANSISTOR 2SD601A-Q		R2146	1-216-077-00	RES,CHIP	15K 5% 1/10W
Q2610	8-729-216-22	TRANSISTOR 2SA1162-G		R2147	1-216-129-00	RES,CHIP	2.2M 5% 1/10W
Q2606	8-729-422-27	TRANSISTOR 2SD601A-Q		R2148	1-216-077-00	RES,CHIP	15K 5% 1/10W
Q2607	8-729-422-27	TRANSISTOR 2SD601A-Q		R2149	1-216-077-00	RES,CHIP	15K 5% 1/10W
Q2608	8-729-422-27	TRANSISTOR 2SD601A-Q		R2164	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
Q2609	8-729-422-27	TRANSISTOR 2SD601A-Q		R2165	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
Q2610	8-729-216-22	TRANSISTOR 2SA1162-G		R2166	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q2801	8-729-422-27	TRANSISTOR 2SD601A-Q		R2167	1-216-109-00	RES,CHIP	330K 5% 1/10W
Q2802	8-729-422-27	TRANSISTOR 2SD601A-Q		R2301	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q2803	8-729-422-27	TRANSISTOR 2SD601A-Q		R2302	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q2804	8-729-422-27	TRANSISTOR 2SD601A-Q		R2303	1-216-075-00	RES,CHIP	12K 5% 1/10W
Q2805	8-729-422-27	TRANSISTOR 2SD601A-Q		R2304	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q2806	8-729-422-27	TRANSISTOR 2SD601A-Q		R2305	1-216-075-00	RES,CHIP	12K 5% 1/10W
				R2306	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R2307	1-216-089-91	RES,CHIP	47K 5% 1/10W
				R2308	1-216-089-91	RES,CHIP	47K 5% 1/10W
				R2309	1-216-067-00	RES,CHIP	5.6K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2310	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R2652	1-216-025-91	RES,CHIP	100 5% 1/10W
R2311	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R2653	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2312	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R2654	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2313	1-216-025-91	RES,CHIP	100 5% 1/10W	R2655	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2314	1-216-025-91	RES,CHIP	100 5% 1/10W	R2656	1-216-083-00	RES,CHIP	27K 5% 1/10W
R2315	1-216-025-91	RES,CHIP	100 5% 1/10W	R2657	1-216-083-00	RES,CHIP	27K 5% 1/10W
R2316	1-216-025-91	RES,CHIP	100 5% 1/10W	R2658	1-216-083-00	RES,CHIP	27K 5% 1/10W
R2601	1-216-009-00	RES,CHIP	22 5% 1/10W	R2659	1-216-085-00	RES,CHIP	33K 5% 1/10W
R2602	1-216-009-00	RES,CHIP	22 5% 1/10W	R2660	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2604	1-216-039-00	RES,CHIP	390 5% 1/10W	R2662	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2605	1-216-085-00	RES,CHIP	33K 5% 1/10W	R2663	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2606	1-216-039-00	RES,CHIP	390 5% 1/10W	R2801	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2607	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2802	1-216-041-00	RES,CHIP	470 5% 1/10W
R2608	1-216-097-91	RES,CHIP	100K 5% 1/10W	R2804	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2609	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2805	1-216-041-00	RES,CHIP	470 5% 1/10W
R2610	1-216-077-00	RES,CHIP	15K 5% 1/10W	R2806	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R2611	1-216-085-00	RES,CHIP	33K 5% 1/10W	R2807	1-216-089-91	RES,CHIP	47K 5% 1/10W
R2612	1-216-357-00	METAL OXIDE	4.7 5% 1W	R2808	1-216-089-91	RES,CHIP	47K 5% 1/10W
R2613	1-216-357-00	METAL OXIDE	4.7 5% 1W	R2809	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R2614	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2810	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2616	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2811	1-216-041-00	RES,CHIP	470 5% 1/10W
R2617	1-216-689-11	RES,CHIP	39K 5% 1/10W	R2813	1-216-113-00	RES,CHIP	470K 5% 1/10W
R2618	1-216-689-11	RES,CHIP	39K 5% 1/10W	R2814	1-216-041-00	RES,CHIP	470 5% 1/10W
R2619	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R2815	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R2620	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R2816	1-216-089-91	RES,CHIP	47K 5% 1/10W
R2621	1-216-009-00	RES,CHIP	22 5% 1/10W	R2817	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R2622	1-216-081-00	RES,CHIP	22K 5% 1/10W	R2818	1-216-089-91	RES,CHIP	47K 5% 1/10W
R2623	1-216-039-00	RES,CHIP	390 5% 1/10W	R2819	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2624	1-216-085-00	RES,CHIP	33K 5% 1/10W	R2820	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2625	1-216-081-00	RES,CHIP	22K 5% 1/10W				
R2626	1-216-357-00	METAL OXIDE	4.7 5% 1W				<RELAY>
R2627	1-216-089-91	RES,CHIP	47K 5% 1/10W	RY2601	1-755-028-11	RELAY	
R2628	1-216-089-91	RES,CHIP	47K 5% 1/10W				<TERMINAL BOARD>
R2629	1-216-689-11	RES,CHIP	39K 5% 1/10W	TB2601	1-694-441-11	TERMINAL, PUSH	
R2630	1-216-049-91	RES,CHIP	1K 5% 1/10W	TB2602	1-694-442-11	TERMINAL, PUSH	
R2631	1-216-073-00	RES,CHIP	10K 5% 1/10W				<CRYSTAL>
R2632	1-216-073-00	RES,CHIP	10K 5% 1/10W	X2101	1-577-358-21	VIBRATOR, CERAMIC	
R2633	1-216-097-91	RES,CHIP	100K 5% 1/10W				
R2634	1-216-073-00	RES,CHIP	10K 5% 1/10W				
R2635	1-216-077-00	RES,CHIP	15K 5% 1/10W				
R2636	1-216-085-00	RES,CHIP	33K 5% 1/10W				
R2637	1-216-041-00	RES,CHIP	470 5% 1/10W				
R2638	1-216-041-00	RES,CHIP	470 5% 1/10W				
R2639	1-216-079-00	RES,CHIP	18K 5% 1/10W				
R2640	1-216-041-00	RES,CHIP	470 5% 1/10W				
R2641	1-216-041-00	RES,CHIP	470 5% 1/10W				
R2642	1-216-079-00	RES,CHIP	18K 5% 1/10W				* A-1390-834-A ZR BOARD, COMPLETE
R2643	1-216-079-00	RES,CHIP	18K 5% 1/10W				*****
R2644	1-216-079-00	RES,CHIP	18K 5% 1/10W				
R2645	1-216-357-00	METAL OXIDE	4.7 5% 1W				4-382-854-11 SCREW (M3X10), P, SW (+)
R2646	1-216-357-00	METAL OXIDE	4.7 5% 1W				
R2647	1-216-083-00	RES,CHIP	27K 5% 1/10W				<CAPACITOR>
R2648	1-216-083-00	RES,CHIP	27K 5% 1/10W				
R2649	1-216-075-00	RES,CHIP	12K 5% 1/10W	C4101	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R2650	1-216-089-91	RES,CHIP	47K 5% 1/10W	C4102	1-104-664-11	ELECT	47μF 20% 16V
R2651	1-216-049-91	RES,CHIP	1K 5% 1/10W	C4103	1-107-667-11	ELECT	2.2μF 20% 160V
				C4104	1-137-364-11	FILM	0.001μF 5% 50V

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

ZR

ZG

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK			
C4105	1-137-364-11	FILM	0.001μF	5%	50V	R4106	1-216-073-00	RES,CHIP	10K	5%	1/10W	
C4106	1-104-987-11	FILM	0.001μF	10%	200V	R4107	1-216-475-11	METAL OXIDE	120	5%	3W	
C4107	1-104-987-11	FILM	0.001μF	10%	200V	R4108	1-216-033-00	RES,CHIP	220	5%	1/10W	
C4108	1-107-364-11	MYLAR	0.01μF	10%	200V	R4109	1-216-025-91	RES,CHIP	100	5%	1/10W	
C4109	1-126-968-11	ELECT	100μF	20%	50V	R4110	1-249-414-11	CARBON	560	5%	1/4W	
C4110	1-107-637-11	ELECT	22μF	20%	160V	R4111	1-247-863-91	CARBON	22K	5%	1/4W	
C4111	1-126-968-11	ELECT	100μF	20%	50V	R4112	1-216-001-00	RES,CHIP	10	5%	1/10W	
C4112	1-161-830-00	CERAMIC	0.0047μF	500V	R4113	1-249-417-11	CARBON	1K	5%	1/4W		
C4113	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	R4114	1-249-414-11	CARBON	560	5%	1/4W	
C4114	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	R4115	1-247-863-91	CARBON	22K	5%	1/4W	
C4115	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	R4116	1-249-397-11	CARBON	22	5%	1/4W	
C4116	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	R4117	1-249-415-11	CARBON	680	5%	1/4W	
<CONNECTOR>												
CN4101 *	1-564-509-11	PLUG, CONNECTOR 6P	R4118	1-249-415-11	CARBON	680	R4119	1-249-384-11	CARBON	1.8	5%	1/4W
CN4102 *	1-564-506-11	PLUG, CONNECTOR 3P	R4120	1-249-384-11	CARBON	1.8	R4121	1-249-399-11	CARBON	33	5%	1/4W
CN4104 *	1-564-507-11	PLUG, CONNECTOR 4P	R4122	1-249-399-11	CARBON	33	R4123	1-216-476-11	METAL OXIDE	180	5%	3W
CN4105 *	1-564-506-11	PLUG, CONNECTOR 3P	R4124	1-208-806-11	RES,CHIP	10K	R4125	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
CN4107 *	1-580-690-11	PIN, CONNECTOR (PC BOARD) 2P	R4126	1-216-025-91	RES,CHIP	100	R4127	1-216-049-91	RES,CHIP	1K	5%	1/10W
<DIODE>												
D4101	8-719-404-49	DIODE MA111	R4128	1-216-049-91	RES,CHIP	1K						
D4102	8-719-921-86	DIODE MTZJ-13										
D4103	8-719-921-86	DIODE MTZJ-13										
D4104	8-719-404-49	DIODE MA111										

* A-1390-835-A ZG BOARD, COMPLETE												

4-382-854-11 SCREW (M3X10), P, SW (+)												

DY4101▲1-451-476-11 DEFLECTION YOKE

<COIL>						<CAPACITOR>					
L4101	1-414-183-41	INDUCTOR	10μH	C4201	1-163-038-91	CERAMIC CHIP	0.1μF	25V			
L4102	1-414-187-11	INDUCTOR	47μH	C4202	1-107-667-11	ELECT	2.2μF	20%	160V		
<TRANSISTOR>						C4203	1-137-364-11	FILM	0.001μF	5%	50V
Q4101	8-729-216-22	TRANSISTOR 2SA1162-G	C4204	1-137-364-11	FILM	0.001μF	5%	50V			
Q4103	8-729-422-27	TRANSISTOR 2SD601A-Q	C4205	1-104-987-11	FILM	0.001μF	10%	200V			
Q4104	8-729-045-04	TRANSISTOR 2SC5511	C4206	1-104-987-11	FILM	0.001μF	10%	200V			
Q4105	8-729-045-05	TRANSISTOR 2SA2005	C4207	1-107-364-11	MYLAR	0.01μF	10%	200V			
Q4106	8-729-422-27	TRANSISTOR 2SD601A-Q	C4208	1-126-968-11	ELECT	100μF	20%	50V			
Q4107	8-729-422-27	TRANSISTOR 2SD601A-Q	C4209	1-126-968-11	ELECT	100μF	20%	50V			
Q4108	8-729-216-22	TRANSISTOR 2SA1162-G	C4210	1-107-637-11	ELECT	22μF	20%	160V			
Q4109	8-729-216-22	TRANSISTOR 2SA1162-G	C4211	1-161-830-00	CERAMIC	0.0047μF		500V			
Q4110	8-729-422-27	TRANSISTOR 2SD601A-Q	C4212	1-106-220-00	MYLAR	0.1μF	10%	100V			
<RESISTOR>						C4213	1-106-220-00	MYLAR	0.1μF	10%	100V
R4101	1-216-033-00	RES,CHIP	220	C4214	1-104-664-11	ELECT	47μF	20%	16V		
R4102	1-208-800-11	RES,CHIP	5.6K	C4215	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
R4103	1-208-794-91	RES,CHIP	3.3K	C4216	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
R4104	1-216-001-00	RES,CHIP	10	C4217	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
R4105	1-216-475-11	METAL OXIDE	120	C4218	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		
<CONNECTOR>											
CN4201 * 1-564-509-11 PLUG, CONNECTOR 6P											
CN4202 * 1-564-509-11 PLUG, CONNECTOR 6P											

The components identified by shading and mark are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
CN4203 *	1-564-507-11	PLUG, CONNECTOR 4P		R4222	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
CN4204 *	1-564-506-11	PLUG, CONNECTOR 3P		R4223	1-208-794-91	RES,CHIP	3.3K 0.50% 1/10W
CN4205 *	1-564-506-11	PLUG, CONNECTOR 3P		R4224	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
CN4206 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P		R4225	1-216-073-00	RES,CHIP	10K 5% 1/10W
CN4207 *	1-564-506-11	PLUG, CONNECTOR 3P		R4226	1-216-025-91	RES,CHIP	100 5% 1/10W
		<DIODE>		R4227	1-216-025-91	RES,CHIP	100 5% 1/10W
				R4228	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R4229	1-216-049-91	RES,CHIP	1K 5% 1/10W

D4201	8-719-921-86	DIODE MTZJ-13
D4202	8-719-921-86	DIODE MTZJ-13
D4203	8-719-404-49	DIODE MA111
D4204	8-719-404-49	DIODE MA111

* A-1390-836-A ZB BOARD, COMPLETE

* * * * *

4-382-854-11 SCREW (M3X10), P, SW (+)

DY4201△1-451-476-11 DEFLECTION YOKE

L4201 1-414-187-11 INDUCTOR 47 μ H
L4202 1-414-183-41 INDUCTOR 10 μ H

<TRANSISTOR>

Q4201	8-729-216-22	TRANSISTOR 2SA1162-G
Q4202	8-729-422-27	TRANSISTOR 2SD601A-Q
Q4203	8-729-045-04	TRANSISTOR 2SC5511
Q4204	8-729-045-05	TRANSISTOR 2SA2005
Q4205	8-729-422-27	TRANSISTOR 2SD601A-Q

TRANSISTOR 2SA2005

Q4206 8-729-422-27 TRANSISTOR 2SD601A-Q
Q4207 8-729-422-27 TRANSISTOR 2SD601A-Q
Q4208 8-729-216-22 TRANSISTOR 2SA1162-G
Q4209 8-729-216-22 TRANSISTOR 2SA1162-G

<RESISTOR>

R4201	1-216-033-00	RES,CHIP	220	5%	1/10W
R4202	1-216-475-11	METAL OXIDE	120	5%	3W
R4203	1-216-033-00	RES,CHIP	220	5%	1/10W
R4204	1-216-001-00	RES,CHIP	10	5%	1/10W

<CONNECTOR>

CN4301 *	1-564-509-11	PLUG, CONNECTOR 6P
CN4302 *	1-564-507-11	PLUG, CONNECTOR 4P
CN4303 *	1-564-506-11	PLUG, CONNECTOR 3P
CN4304 *	1-580-690-11	PIN, CONNECTOR (PC BOARD) 2P
CN4305 *	1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

D4301	8-719-921-86	DIODE MTZJ-13
D4302	8-719-921-86	DIODE MTZJ-13
D4303	8-719-404-49	DIODE MA111
D4304	8-719-404-49	DIODE MA111

<CONNECTOR>

R4216	1-249-384-11	CARBON	1.8	5%	1/4W
R4217	1-249-399-11	CARBON	33	5%	1/4W
R4218	1-249-399-11	CARBON	33	5%	1/4W
R4219	1-216-476-11	METAL OXIDE	180	5%	3W
R4221	1-208-806-11	RES,CHIP	10K	0.50%	1/10W

DY4301△1-451-476-11 DEFLECTION YOKE

ZB

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
<COIL>			
L4301	1-414-187-11	INDUCTOR	47μH
L4302	1-414-183-41	INDUCTOR	10μH
<TRANSISTOR>			
Q4301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4302	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4303	8-729-045-04	TRANSISTOR 2SC5511	
Q4304	8-729-045-05	TRANSISTOR 2SA2005	
Q4305	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4306	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4307	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4309	8-729-216-22	TRANSISTOR 2SA1162-G	
<RESISTOR>			
R4301	1-216-033-00	RES,CHIP	220 5% 1/10W
R4302	1-216-033-00	RES,CHIP	220 5% 1/10W
R4303	1-216-001-00	RES,CHIP	10 5% 1/10W
R4304	1-216-475-11	METAL OXIDE	120 5% 3W
R4305	1-216-001-00	RES,CHIP	10 5% 1/10W
R4306	1-216-475-11	METAL OXIDE	120 5% 3W
R4307	1-249-397-11	CARBON	22 5% 1/4W
R4308	1-247-863-91	CARBON	22K 5% 1/4W
R4309	1-249-414-11	CARBON	560 5% 1/4W
R4310	1-249-415-11	CARBON	680 5% 1/4W
R4311	1-249-414-11	CARBON	560 5% 1/4W
R4312	1-247-863-91	CARBON	22K 5% 1/4W
R4313	1-249-415-11	CARBON	680 5% 1/4W
R4314	1-249-417-11	CARBON	1K 5% 1/4W
R4315	1-249-384-11	CARBON	1.8 5% 1/4W
R4316	1-249-384-11	CARBON	1.8 5% 1/4W
R4317	1-249-399-11	CARBON	33 5% 1/4W
R4318	1-249-399-11	CARBON	33 5% 1/4W
R4319	1-216-476-11	METAL OXIDE	180 5% 3W
R4321	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R4322	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R4323	1-208-794-91	RES,CHIP	3.3K 0.50% 1/10W
R4324	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R4325	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4326	1-216-025-91	RES,CHIP	100 5% 1/10W
R4327	1-216-025-91	RES,CHIP	100 5% 1/10W
R4328	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4329	1-216-049-91	RES,CHIP	1K 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
MISCELLANEOUS			
	△ 1-223-925-51	RESISTOR ASSY (HIGH-VOLTAGE)	
22	1-505-914-11	SPEAKER (10CM)	
23	1-505-915-11	SPEAKER (13CM)	
24	1-505-916-11	SPEAKER (5.2CM)	
25	1-528-911-11	BATTERY, SOLAR	
73	1-505-917-11	SPEAKER (16CM)	
109	* A-1343-476-A	D BOARD, COMPLETE (VAR)	(KP-61XBR200)
112	1-783-595-11	CORD, NOISE FILTER WITH POWER	
113	* 1-556-945-21	CABLE, P-P	
114	* 1-557-056-31	CABLE, P-P	
115	1-251-321-12	SELECTOR, ANTENNA	
152	△ 8-733-572-05	07MXC3(R)(DIAPHRAGM), PICTURE TUBE	(KP-53XBR200)
152	△ 8-733-573-05	07MXC4(R)(DIAPHRAGM), PICTURE TUBE	(KP-61XBR200)
153	△ 1-451-476-11	DEFLECTION YOKE	
155	△ 1-452-790-21	NECK ASSY	
157	△ 8-733-570-05	07MXC2(G)(DIAPHRAGM), PICTURE TUBE	
160	△ 8-733-575-05	07MAC3(B)(DIAPHRAGM), PICTURE TUBE	(KP-53XBR200)
160	△ 8-733-576-05	07MAC4(B)(DIAPHRAGM), PICTURE TUBE	(KP-61XBR200)
166	△ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
ACCESSORIES AND PACKING MATERIALS			

	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)	
	3-864-093-11	MANUAL, INSTRUCTION	
	* 4-041-428-01	BAG, POLYETHYLENE	
	* 4-042-463-01	SHEET, PROTECTION	
	* 4-063-915-01	CUSHION (UPPER)(ASSY) (KP-61XBR200)	
	* 4-063-916-01	CUSHION (LOWER)(ASSY) (KP-61XBR200)	
	* 4-063-921-01	INDIVIDUAL CARTON (KP-61XBR200)	
	* 4-063-922-01	BOARD, BOTTOM (KP-61XBR200)	
	* 4-063-923-01	TRAY (KP-61XBR200)	
	* 4-063-924-01	CUSHION (UPPER)(ASSY) (KP-53XBR200)	
	* 4-063-925-01	CUSHION (LOWER)(ASSY) (KP-53XBR200)	
	* 4-063-930-01	INDIVIDUAL CARTON (KP-53XBR200)	
	* 4-063-931-01	BOARD, BOTTOM (KP-53XBR200)	
	* 4-063-932-01	TRAY (KP-53XBR200)	
	* 4-065-746-01	BOARD, TOP (KP-53XBR200)	
	* 4-065-747-01	BOARD, TOP (KP-61XBR200)	
REMOTE COMMANDER			

	1-475-898-11	REMOTE COMMANDER (RM-Y902)	
	9-933-736-01	COVER, BATTERY (FOR RM-Y902)	